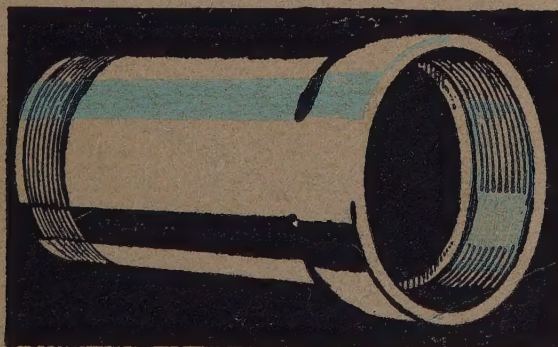


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ERITH & CO. LTD.

(ESTABLISHED 1820)



**SALT GLAZED
STONEWARE**
SANITARY PIPES & FITTINGS



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ERITH & CO. LTD.

ESTABLISHED 1820

BUILDERS' MERCHANTS AND
BRICK MAKERS

For
BUILDING MATERIALS
OF EVERY KIND

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INTRODUCTORY

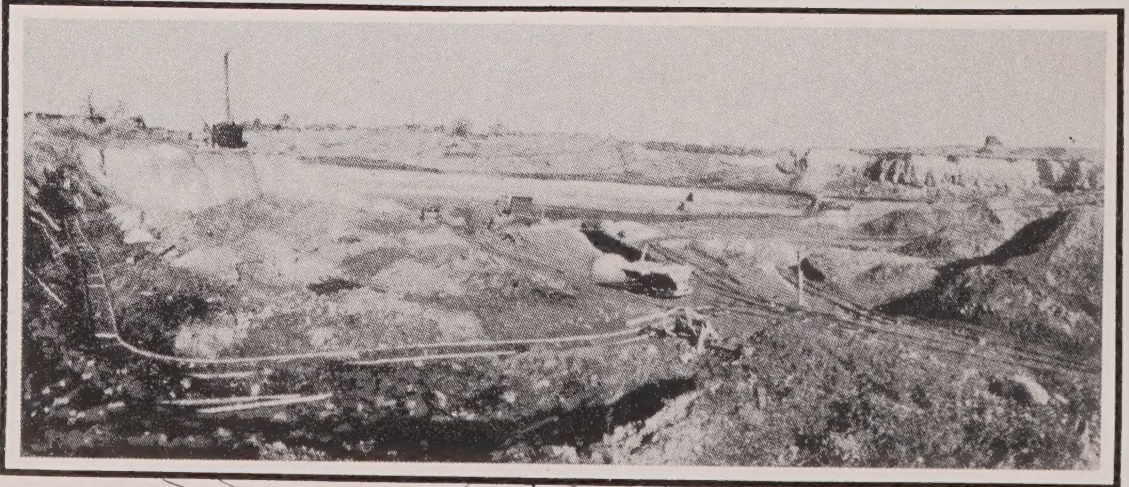
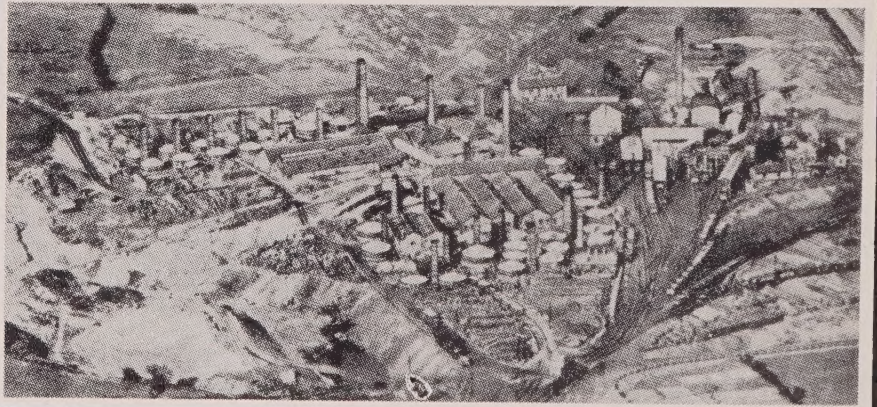
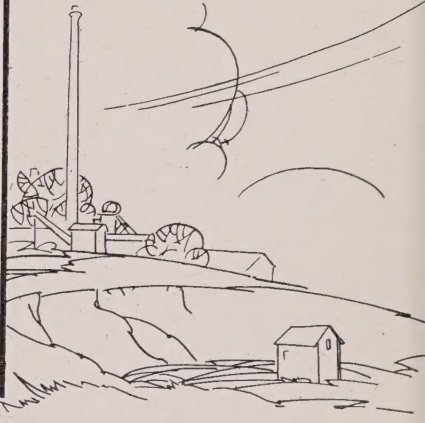
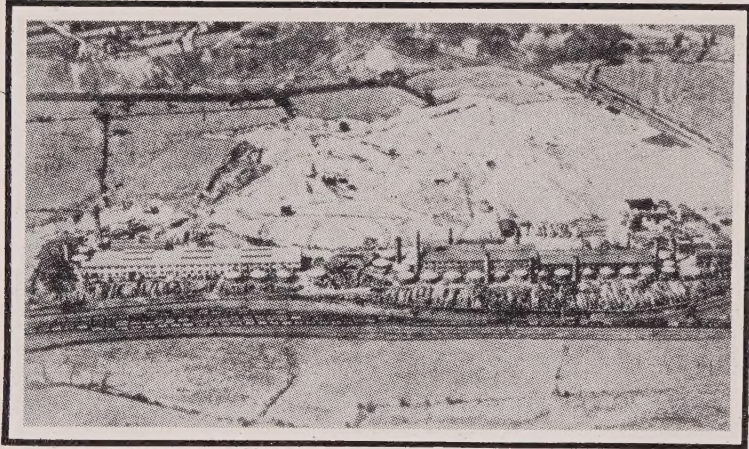
WE have pleasure in presenting our joint Catalogue, which we hope you will keep before you, and find useful as a book of reference.

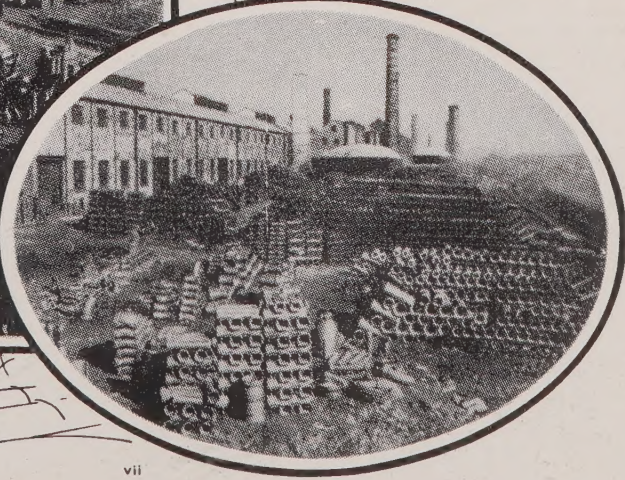
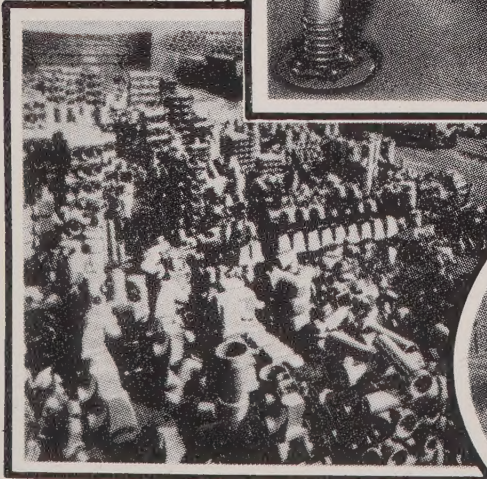
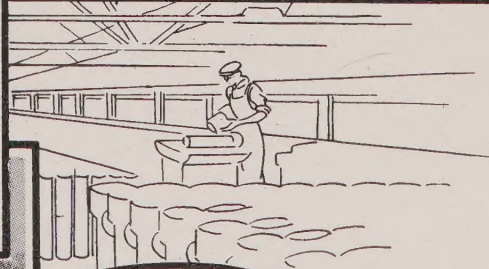
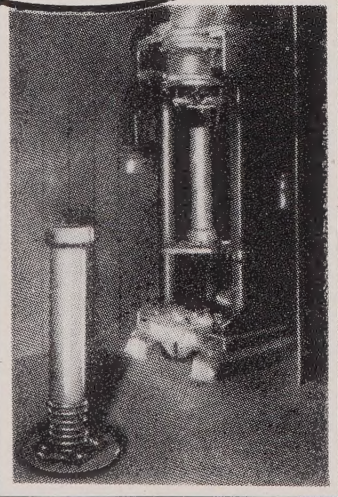
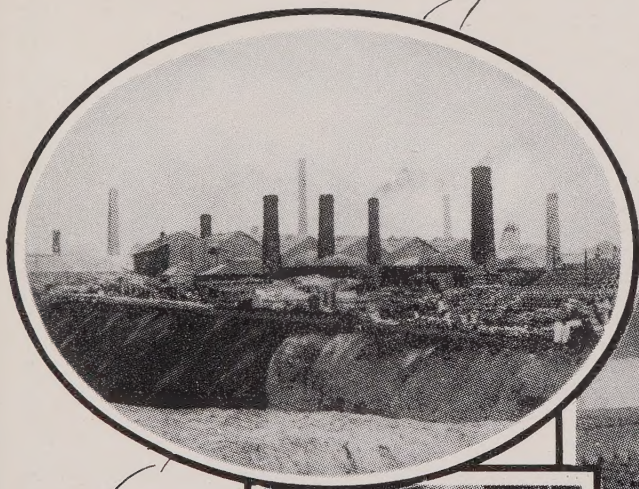
Our goods are manufactured from best Midland Stoneware Clays ; they are well Salt Glazed ; and are thoroughly vitrified, and non-porous.

Co-operating in selling and in the exchange of technical information, we can offer a high standard of quality and first-class service.

We shall be pleased for you to inspect our stocks in bulk, and we make this an opportunity to invite you to visit our Works at any time, to see our methods of manufacture and to examine our stocks.

We solicit your enquiries and orders, which will always receive careful and prompt attention.





APPROXIMATE WEIGHTS

2" diameter	-	-	-	-	150 yards to one ton.			
3" "	-	-	-	-	108	"	"	"
4" "	-	-	-	-	80	"	"	"
5" "	-	-	-	-	60	"	"	"
6" "	-	-	-	-	51	"	"	"
7" "	-	-	-	-	40	"	"	"
8" "	-	-	-	-	32	"	"	"
9" "	-	-	-	-	28	"	"	"
10" "	-	-	-	-	25	"	"	"
12" "	-	-	-	-	18	"	"	"
15" "	-	-	-	-	10	"	"	"
18" "	-	-	-	-	7 $\frac{1}{2}$	"	"	"
21" "	-	-	-	-	6	"	"	"
24" "	-	-	-	-	5	"	"	"

**SALT GLAZED
STONEWARE PIPES
JUNCTIONS, BENDS
GULLEY TRAPS
INTERCEPTORS
and
ROAD GULLIES**

SALT GLAZED STONEWARE PIPES

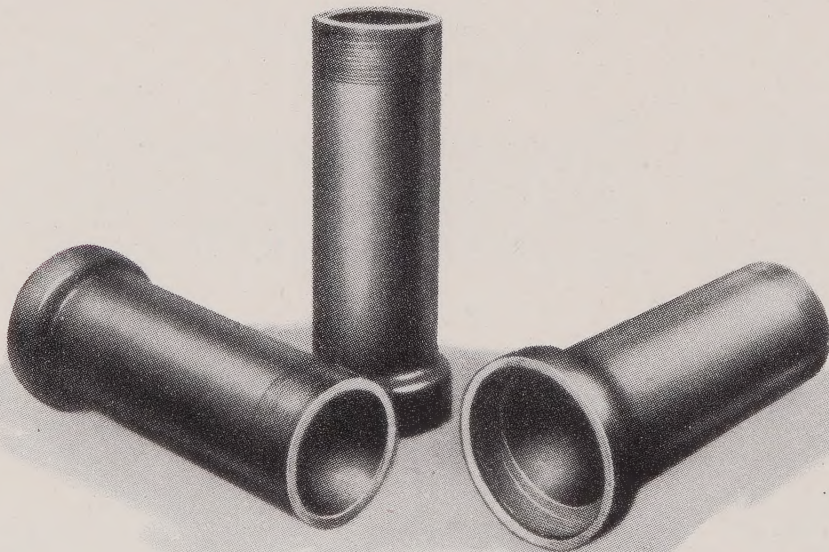


Fig. 1.

Supplied in the following sizes :—

- 2", 3", 4", 5" and 6" diameter, in 2' lengths ;
- 7" and 8" diameter, in 2' 6" lengths ;
- 9", 10", 12", 15" and 18" diameter, in 2' 6" or 3' lengths ;
- 21" and 24" diameter, in 3' lengths.

Shorter lengths than 2' are supplied, to avoid the necessity of cutting ; short lengths are charged as 2' long.

Pipes of 6" diameter and under can be supplied in greater lengths than 2' at an extra charge.

ORDINARY BEST QUALITY PIPES AND FITTINGS are supplied unless otherwise ordered.

BRITISH STANDARD PIPES and BRITISH STANDARD TESTED PIPES are also supplied when specially ordered, at the appropriate prices. The terms " British Standard " and " British Standard Tested " are only correctly applied when referring to Pipes manufactured in accordance with the British Standard Specification (No. 65) which, after selective examination, are found to comply in *all respects* with the requirements of the Specification.

SECONDS PIPES can be supplied if required, for surface water drainage. Seconds Pipes are damaged or defective, or so misshapen as to be unfit for use as Best Pipes.

SALT GLAZED STONEWARE PIPES

TESTED PIPES

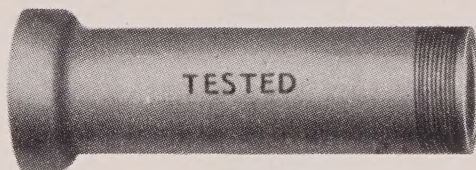


Fig. 2.

Selected pipes of best quality stoneware only are Tested. Subjected to internal hydraulic pressure, the slightest flaws are detected, and each sound pipe is stencilled " Tested " to indicate that it has satisfactorily stood the test. Every pipe supplied which is marked " Tested " is guaranteed to have been subjected to, and to have withstood, the test.

PERFORATED PIPES

FOR LAND DRAINAGE, SEWAGE FARMS AND WATER WORKS.

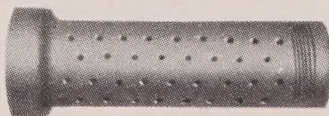


Fig. 3.

Pipes of all sizes can be supplied, perforated over the whole surface (as illustrated) or over part only of the surface.

BUTT PIPES



Fig. 4

Supplied in all the usual sizes and lengths. Short lengths of Butt Pipes are charged at actual length, not as 2' of pipe.

SALT GLAZED STONEWARE JUNCTIONS

SINGLE JUNCTIONS

OBLIQUE.

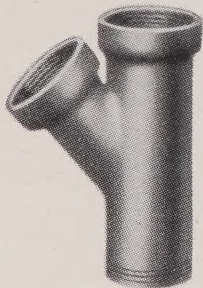


Fig. 5.

CURVED OBLIQUE.

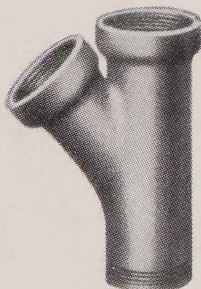


Fig. 7.

Junctions with 2" to 6" diameter main are usually supplied in 2' lengths; 7" to 12" diameter, in 2' 6" lengths; 15" and 18" diameter, in 2' 6" or 3' lengths; 21" and 24" diameter, in 3' lengths.

Junctions 6" diameter and smaller are also supplied in lengths of 1'. Short Junctions are charged as 2' long.

Junctions are charged according to the size of the main pipe, irrespective of the size of the branch.

SQUARE.

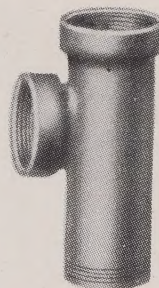


Fig. 6.

CURVED SQUARE.

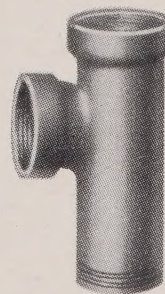


Fig. 8.

SADDLE JUNCTION PIECES

FOR CONNECTING BRANCH MAINS WITH EXISTING SEWERS.

OBLIQUE.



Fig. 9.

SQUARE.



Fig. 10.

Supplied to fit 6" to 36" mains.

SALT GLAZED STONEWARE JUNCTIONS

DOUBLE JUNCTIONS

DOUBLE OBLIQUE.

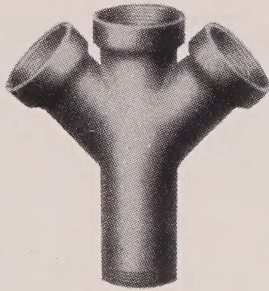


Fig. 11.

DOUBLE CURVED OBLIQUE.

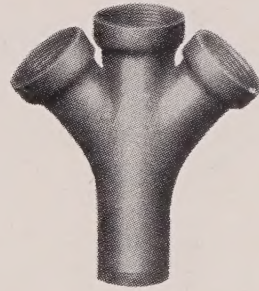


Fig. 12.

BREECHES.



Fig. 13.

DOUBLE SQUARE.

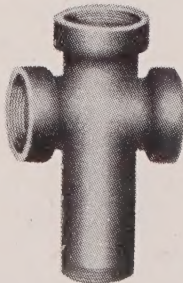


Fig. 14.

DOUBLE CURVED SQUARE.

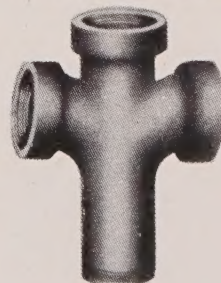


Fig. 15.

Supplied in similar lengths to Single Junctions.
Short-length Junctions, under 2', charged as 2' long.

SALT GLAZED STONEWARE JUNCTIONS

SPECIAL JUNCTIONS

SPACED JUNCTION.

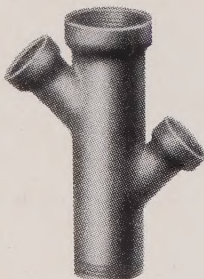


Fig. 16.

SPECIAL
SLOW OBLIQUE JUNCTION.

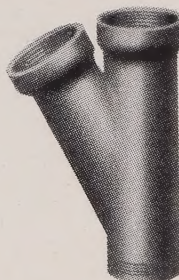


Fig. 17

DOUBLE SPACED JUNCTION.



Fig. 18.

REST BEND JUNCTION.



Fig. 19 (Right Hand).

REST BEND JUNCTION.

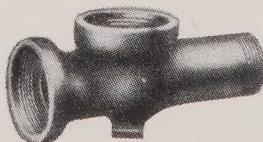


Fig. 19A (Left Hand).

SALT GLAZED STONEWARE JUNCTIONS

JOINDER JUNCTION

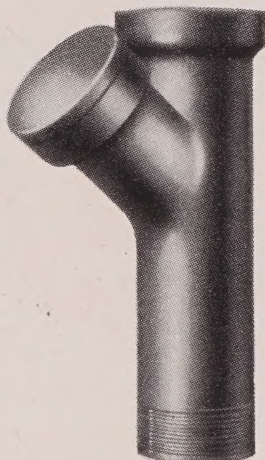


Fig. 20.

Joinders, as illustrated above, afford an effective means of closing the sockets of junction branches to sewers until they are required for house connections at some future time.

The capped end of the branch is manufactured as an integral part of the junction, and it is nicked or grooved, to facilitate removal. Leakage is impossible. A few sharp blows on a chisel placed in the cutting groove will remove the cap, leaving the interior of the socket exposed ready to take the branch pipe.

The Joinder cap may be applied to the branch socket of a junction, or to the socket of a short length of pipe to be connected to the branch of an ordinary junction.

STOPPERS

Loose Stoppers, either plain or Stanford jointed, are supplied for fixing in the branch socket of junctions.

PLAIN.



Fig. 21

ORDINARY
STANFORD JOINTED.



Fig. 22.

SCREW
STANFORD JOINTED.



Fig. 23.

SALT GLAZED STONEWARE JUNCTIONS

TUMBLING BAY or DROP-BACK JUNCTIONS

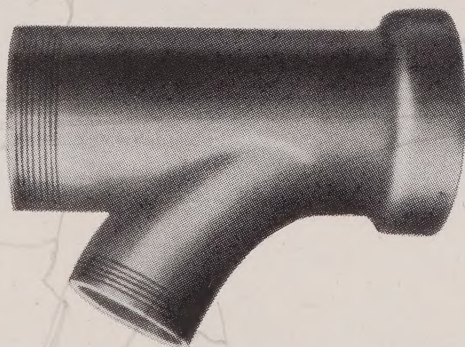


Fig. 24.

(Also supplied curved square, Fig. 25A.)

ORDINARY OBLIQUE.

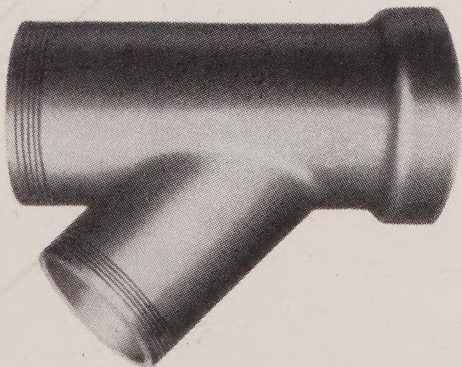


Fig. 25.

Also made with a socket at both ends.

SALT GLAZED STONEWARE BENDS

STANDARD BENDS

QUARTER CIRCLE 90°



Fig. 26.

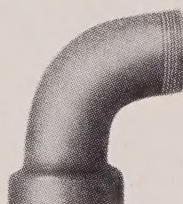


Fig. 26A.

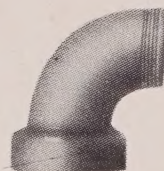


Fig. 26B.
(Knuckle).

SIXTH CIRCLE 60°

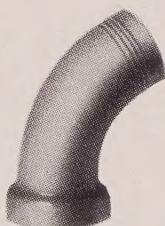


Fig. 27.

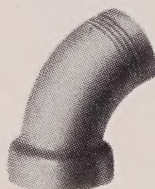


Fig. 27A.



Fig. 27B.

EIGHTH CIRCLE 45°



Fig. 28.



Fig. 28A.



Fig. 28B.

SIXTEENTH CIRCLE 22½°

Supplied in
all sizes.



Fig. 29.

For special bends,
see next page.

SALT GLAZED STONEWARE BENDS

BENDS OF SPECIAL PATTERN



Fig. 30.

30°



Fig. 31.

20°



Fig. 32.

15°



Fig. 33.

15°

Stocked in sizes 4" and 6" diameter only.



Fig. 34.

45°

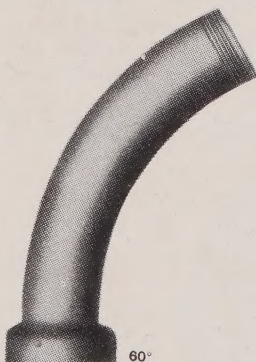


Fig. 35.

60°

Stocked in 4" diameter only.



Fig. 36.

60°

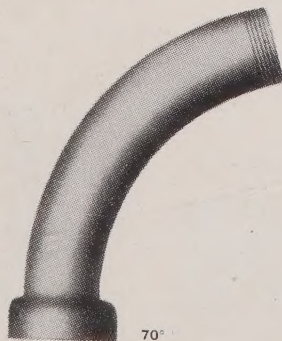


Fig. 37.

70°



Fig. 38.

90°

Stocked in 4" diameter only.



Fig. 39.

30°

The dimensions given apply to 4" diameter bends.

SALT GLAZED STONEWARE BENDS

SPECIAL BENDS

LONG KNUCKLE BEND.



Fig. 40.

S BEND.



Fig. 41.

CLEANING ARM BEND.



Fig. 42.

TERMINAL REST BEND.

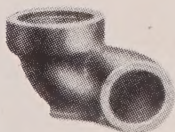


Fig. 43A (Left Hand).
(Right Hand, Fig. 43.)

REST BEND.

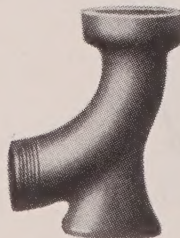


Fig. 44.
(Supplied in any Sweep.)

LOOSE COLLAR.



Fig. 45.

DOUBLE SOCKETS.



Fig. 46.



Fig. 46A



Fig. 46B.

SALT GLAZED STONEWARE TAPERS, etc.

TAPER PIPES

ORDINARY PATTERN



Fig. 47.

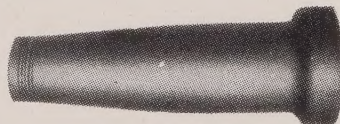


Fig. 47A.

Short Taper Pipes also supplied, charged as if 2 ft. long.

LEVEL INVERT TAPER PIPE



Fig. 48.

(Also supplied with socket on the larger end, Fig. 49A.)

Level Invert Taper Pipes are supplied for connecting drains of different diameters when a uniform gradient is to be maintained. The base level or invert of the drain is unaltered.

TAPER BENDS

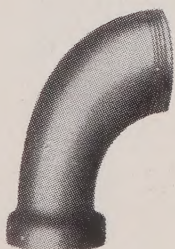


Fig. 49.
1/4 Circle.



Fig. 50.
Knuckle.



Fig. 51.
1/2 Circle.



Fig. 52.
3/4 Circle.

Supplied also with socket on larger end (Figs. 50A, 51A, 52A, and 53A).

TAPER JUNCTION



Fig. 53.

Double junctions and square junctions also supplied.

Supplied in all the usual sizes.

SALT GLAZED STONEWARE ACCESS FITTINGS

ACCESS PIPE

Supplied
4" diameter with
9" $\times$ 4½" opening.

6" diameter with
10½" $\times$ 6" opening.

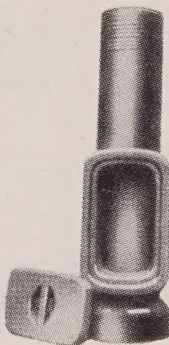


Fig. 54.

The access opening permits the insertion of a testing plug.

Also supplied with oval opening.

Unless otherwise ordered, a stoneware cover is supplied. Galvanised sealing plate for opening also supplied when specially ordered.

ACCESS DOUBLE JUNCTION

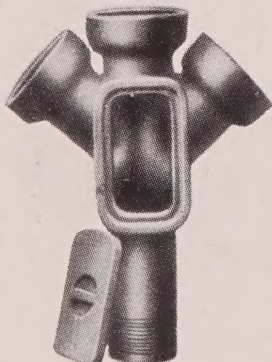


Fig. 55.

Junctions supplied either square or oblique.

Sizes :—

4" main with 4" branch.
6" main with 4" branch.
6" main with 6" branch.

ACCESS SINGLE JUNCTION

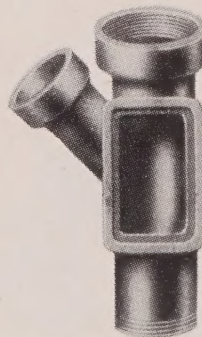


Fig. 56.

Supplied one-quarter circle, one-sixth circle, one-eighth circle and one-sixteenth circle, in sizes 4" and 6" diameter.

ACCESS BEND



Fig. 57 (Left Hand).
(Right Hand, Fig. 57A).

SALT GLAZED STONEWARE INSPECTION FITTINGS

SIZES :—

4" diameter with 4" inspection caps.

6" diameter with 6" inspection caps.

INSPECTION BEND.

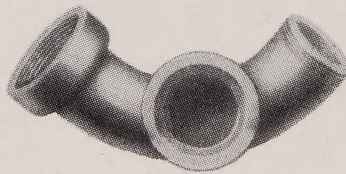


Fig. 59 (Right Hand).
(Left Hand, Fig. 59A).

INSPECTION PIPE.



Fig. 58.

Bends supplied one-quarter, one-sixth, one-eighth and one-sixteenth circle. Junctions supplied either square or oblique, single or double.

Unless otherwise ordered, stoneware cover supplied.

INSPECTION JUNCTION.

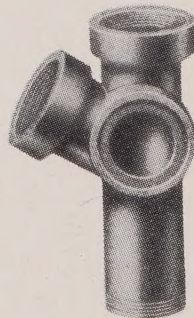


Fig. 60A (Left Hand).
(Right Hand, Fig. 60).

CAPPED PIPE.



Fig. 61.

OPERCULAR PIPE.

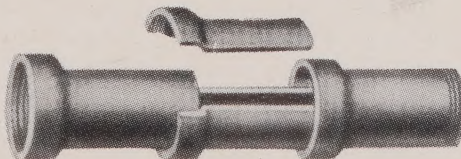


Fig. 62.

**CHANNELS
FOR
MANHOLES, Etc.**

SALT GLAZED STONEWARE CHANNELS

SOCKETED CHANNEL PIPE.



Fig. 63.

UNSOCKETED (OR BUTT) CHANNEL PIPE.



Fig. 64.

Supplied in the usual diameters and lengths
as whole pipes.

CHANNEL TAPER.



Fig. 65.

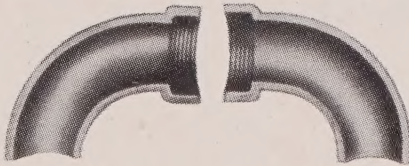
CHANNEL STOP-END.



Fig. 66.

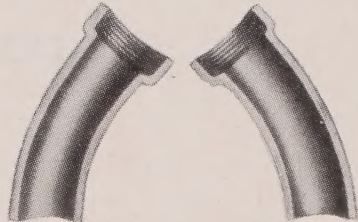
Also supplied with socket on the larger end.

CHANNEL ORDINARY BENDS



$\frac{1}{2}$ circle—90°
Fig. 67A (Right Hand).

$\frac{1}{2}$ circle—90°
Fig. 67 (Left Hand).

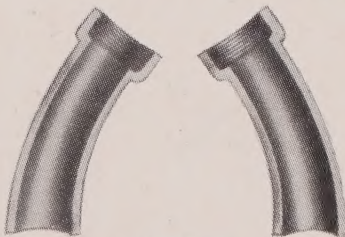


$\frac{1}{2}$ circle—45°
Fig. 68A (Right Hand).

$\frac{1}{2}$ circle—45°
Fig. 68 (Left Hand).

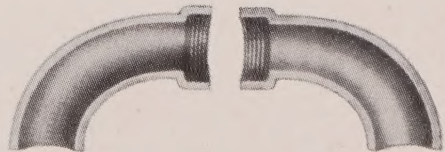
One-sixteenth bends also supplied.

CHANNEL TAPER BENDS



$\frac{1}{2}$ circle—45°
Fig. 69A (Right Hand).

$\frac{1}{2}$ circle—45°
Fig. 69 (Left Hand).



$\frac{1}{2}$ circle—90°
Fig. 70A (Right Hand).

$\frac{1}{2}$ circle—90°
Fig. 70 (Left Hand).

One-sixteenth bends also supplied.

Also supplied with socket on the larger end.

N.B.—The "hand" of channel goods is determined by looking from the spigot end towards the socket end.

SALT GLAZED STONEWARE CHANNELS

HALF-SECTION MAIN CHANNEL BENDS (LONG)

Fig. 71.

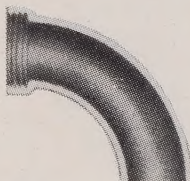


Fig. 72.

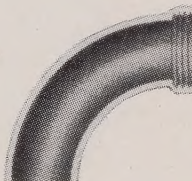


Fig. 73.



Fig. 74.

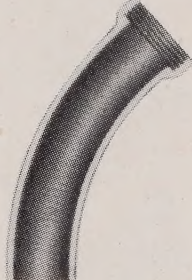


Fig. 75.

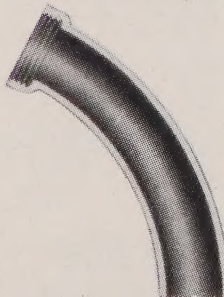


Fig. 76.

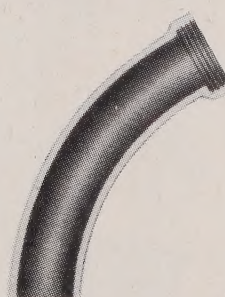


Fig. 77.

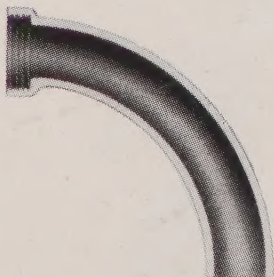
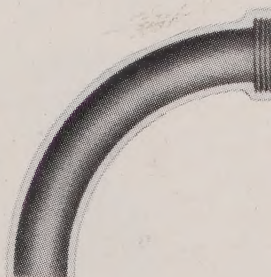


Fig. 78.



Usual sizes 4" and 6" diameter. Larger sizes made to order.

SALT GLAZED STONEWARE CHANNELS

HALF-SECTION BRANCH BENDS

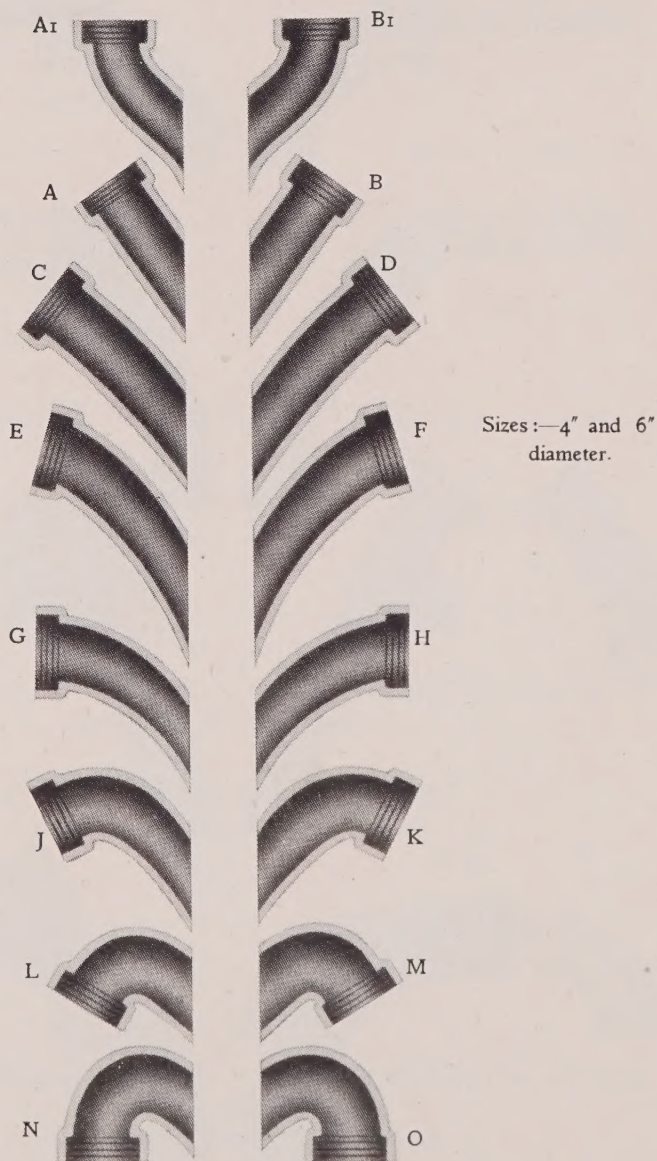
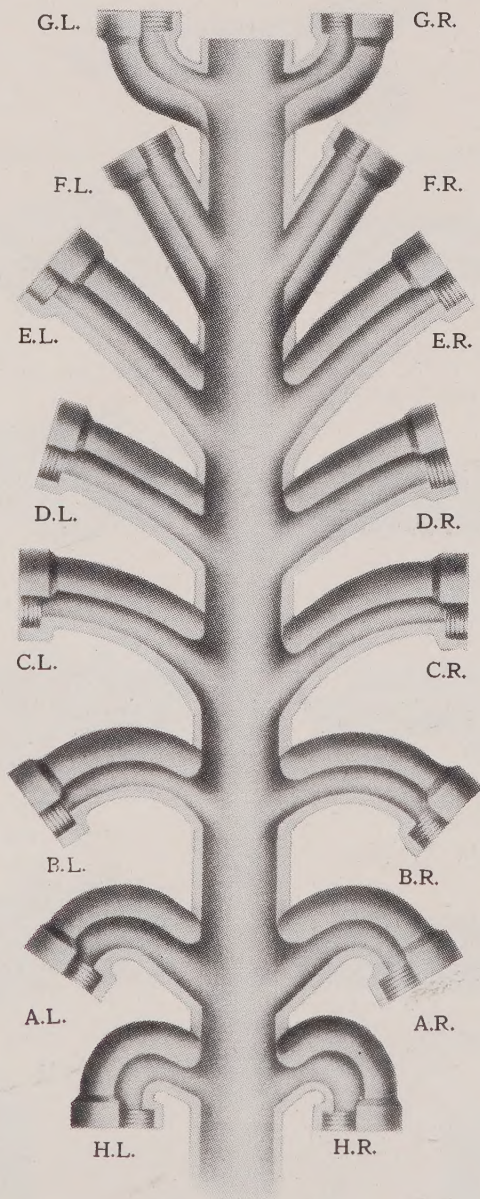


Fig. 79.

SALT GLAZED STONEWARE CHANNELS

THREE-QUARTER SECTION BRANCH BENDS

Each bend is carefully modelled to prevent fouling or splashing, and provides for the easy inserting of a testing stopper.



Sizes 4" and 6" diameter.

Midget Bends also supplied.

Full size bends supplied unless otherwise ordered.

Section of $\frac{3}{4}$ -section Branch Bends.



Fig. 80.

SALT GLAZED STONEWARE CHANNELS

CHANNEL JUNCTIONS

BREECHES.



Fig. 89.

SINGLE OBLIQUE.

DOUBLE OBLIQUE.

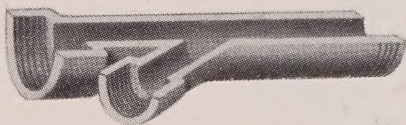


Fig. 81 (Left Hand).
(Right Hand, Fig. 81A).

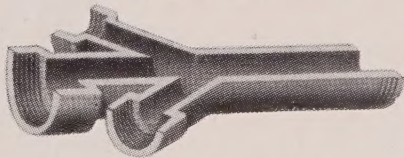


Fig. 82.

SINGLE OBLIQUE, CURVED.

DOUBLE OBLIQUE, CURVED.

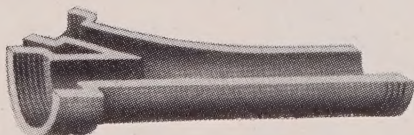


Fig. 83 (Right Hand).
(Left Hand, Fig. 83A).



Fig. 84.

SINGLE SQUARE.

DOUBLE SQUARE.

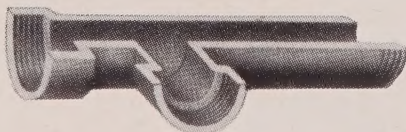


Fig. 85 (Left Hand).
(Right Hand, Fig. 85A).

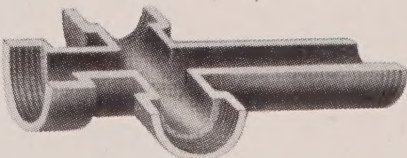


Fig. 86.

SINGLE SQUARE, CURVED.

DOUBLE SQUARE, CURVED.

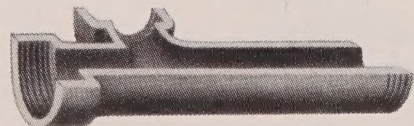


Fig. 87 (Right Hand).
(Left Hand, Fig. 87A).

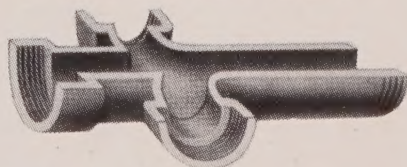


Fig. 88.

DRAIN CHUTE.

Supplied in all the usual sizes.

DRAIN CHUTE.

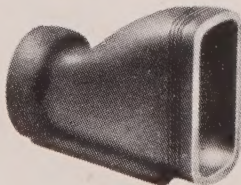


Fig. 90.

SIZES :
For 4" and 6" drain.

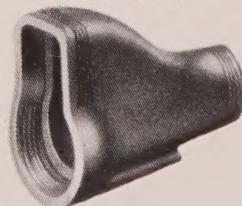


Fig. 91.

GULLIES

TRAPS

Etc.

SALT GLAZED STONEWARE YARD GULLIES

ORDINARY PATTERN

WITHOUT INLETS.

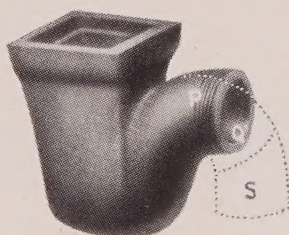


Fig. 92.

Supplied with
P, Q or S outlet,
as indicated by the
dotted lines.

WITH HORIZONTAL BACK
INLET.

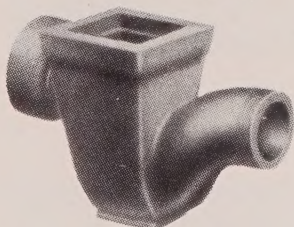


Fig. 92A.

WITH VERTICAL BACK
INLET.

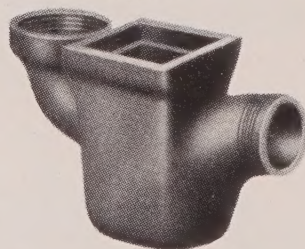


Fig. 92X.

LEFT-HAND INLET.

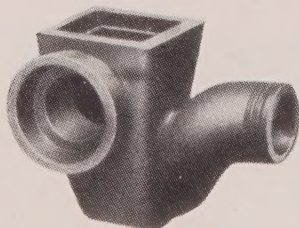


Fig. 92B

RIGHT-HAND INLET.

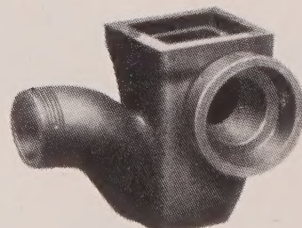


Fig. 92C.

DIMENSIONS :—

Size of grating ..	4" × 4"	5" × 5"	6" × 6"	8" × 8"	9" × 9"	10" × 10"	12" × 12"
Diameter of outlet ..	3" or 4"	4"	3", 4" or 6"	4" or 6"	4" or 6"	4" or 6"	4" or 6"

SALT GLAZED STONEWARE YARD GULLIES

ORDINARY PATTERN

BACK AND LEFT-HAND INLETS.

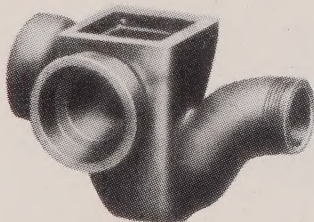


Fig. 92AB.

BACK AND RIGHT-HAND INLETS.

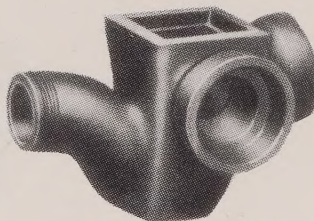


Fig. 92AC.

LEFT-HAND VERTICAL INLET.

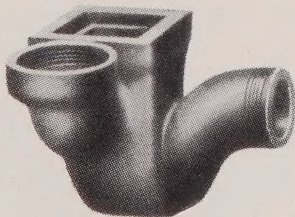


Fig. 92Y.

RIGHT-HAND VERTICAL INLET.

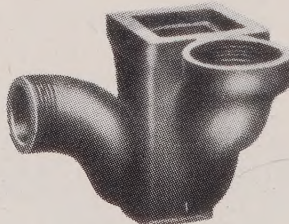


Fig. 92Z.

LEFT AND RIGHT INLETS.

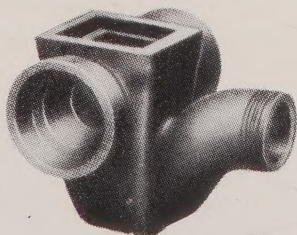


Fig. 92BC.

BACK, RIGHT AND LEFT INLETS.

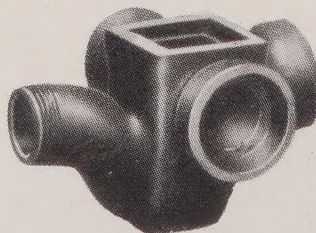


Fig. 92ABC.

DIMENSIONS :—

Size of grating ..	4" × 4"	5" × 5"	6" × 6"	8" × 8"	9" × 9"	10" × 10"	12 × 12"
Diameter of outlet ..	3" or 4"	4"	3", 4" or 6"	4" or 6"	4" or 6"	4" or 6"	4" or 6"

SALT GLAZED STONEWARE YARD GULLIES

ANGULAR PATTERN

PLAIN GULLEY WITHOUT INLET.

Supplied with
P, Q or S outlet.

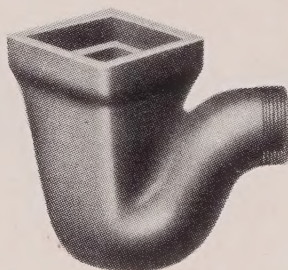


Fig. 93.

USUAL SIZE :—
6" × 6" grating,
4" diameter outlet.

WITH LEFT-HAND HORIZONTAL INLET.

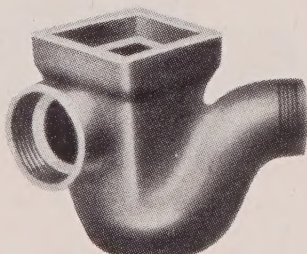


Fig. 93B.

WITH RIGHT-HAND HORIZONTAL INLET.

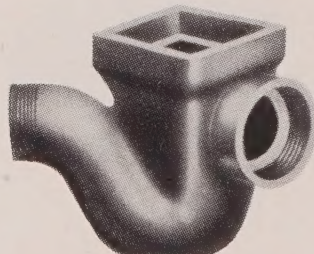


Fig. 93C.

WITH LEFT-HAND VERTICAL INLET.

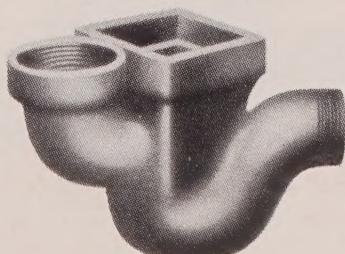


Fig. 93Y.

WITH RIGHT-HAND VERTICAL INLET.

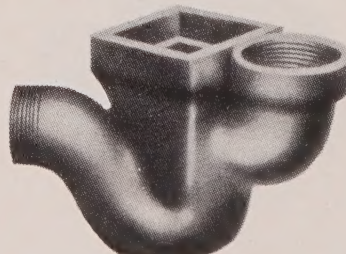


Fig. 93Z.

N.B.—If two horizontal inlets are required, order Fig. 93BC ;
if two vertical inlets, Fig. 93YZ.

SALT GLAZED STONEWARE YARD GULLIES

LEICESTER GULLEY TRAP.

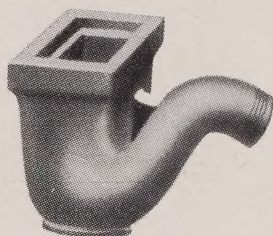


Fig. 94.

Size :—
10" × 7" grating,
4" outlet.

WITHOUT REBATE.

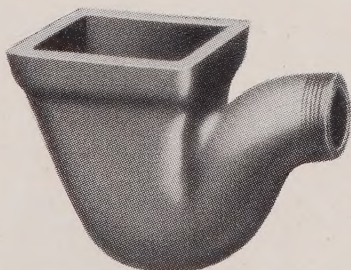


Fig. 95.

Size :—
7" × 7", 8" × 8" and 9" × 9"
inside at top,
4" diameter outlet.

Supplied with
P, Q or S outlets, and
with or without inlets.

SECTION.

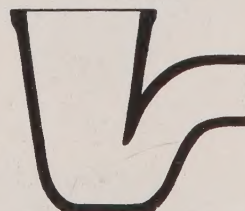


Fig. 95.

YARD GULLEY WITH HINGED GRATING.

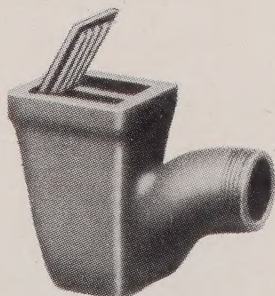


Fig. 96.

WITH OBLIQUE INLET.

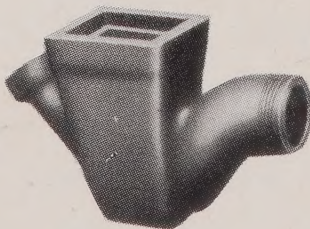


Fig. 97.

WITH 4" × 3" RECTANGULAR RAINWATER INLET.

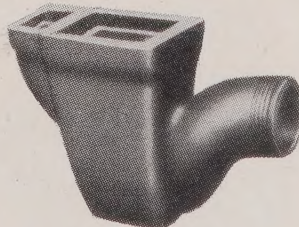


Fig. 98.

Usual size, to take 6" × 6" grating.
Supplied with P, Q or S traps.

SALT GLAZED STONEWARE INSPECTION YARD GULLIES AND RAISING PIECE

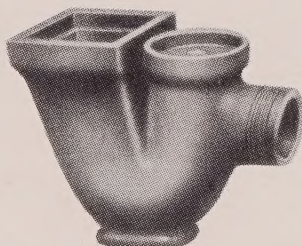


Fig. 99.

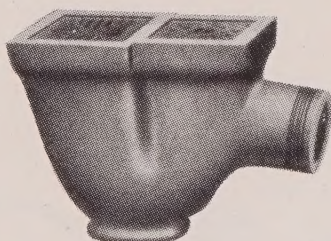


Fig. 100.

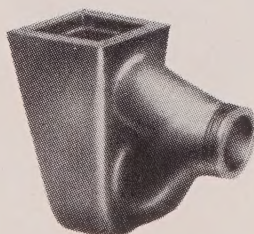


Fig. 101.

The object of all the Gullies here illustrated is to provide an effective and easy means of inspecting and cleaning the drains.

All are supplied with P, Q or S trap, with or without inlets, and in the following

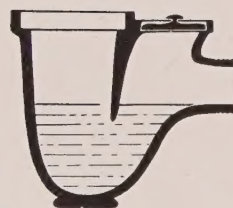
sizes :—

6" × 6" with 4" outlet.

9" × 9" with 4" or 6" outlet.

Figs. 99 and 100 offer an external inspection eye on top of the outlet, fitted with stoneware stopper (Fig. 99) and galvanised sealing plate and frame (Fig. 100).

Fig. 101 provides an internal inspection eye, fitted with Stanford jointed air-tight stopper or galvanised sealing plate.



GULLEY RISERS OR RAISING PIECES

FOR SQUARE GULLEY.

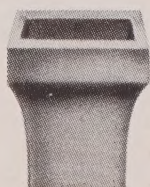


Fig. 102.

Supplied with or without inlets :—

3", 6", 9" or 12" high.

FOR CIRCULAR GULLEY.



Fig. 103.

SALT GLAZED STONEWARE REVERSIBLE GULLIES

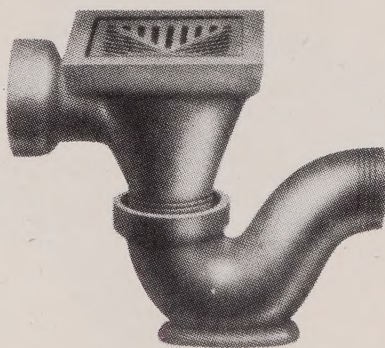
THE "REVERSIBLE"

(IN TWO PIECES).

COMBINATION OF HOPPER AND TRAP.

SIZES :—

Hopper to take
6" × 6", 8" × 8" and 9" × 9"
gratings ; 9" high ; trap with
outlet 4" diameter.



Supplied without inlet, or
with one, two or three inlets.

See chart on page 30 for
ordering when inlets are
required.

Raising pieces are also sup-
plied as illustration (Fig. 102).

PLAIN HOPPER.

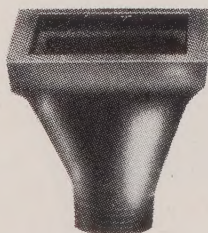


Fig. 104

TRAP.



Fig. 108.

HOPPER WITH OBLIQUE
RAIN-WATER INLET.

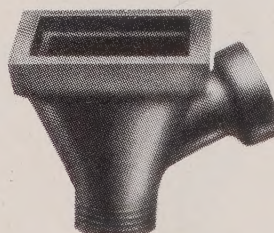


Fig. 105.

HOPPER WITH HORIZONTAL
INLET.

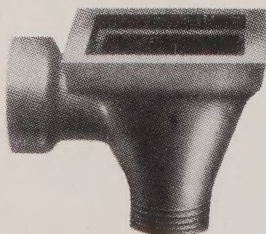


Fig. 106.

Traps are supplied with P,
Q or S outlets, and are
supplied with inspection eye
if required (see dotted lines).

HOPPER WITH VERTICAL
RAIN-WATER INLET.

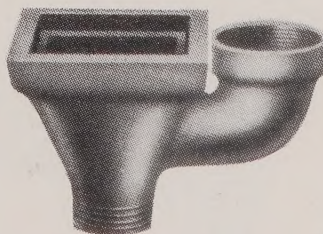


Fig. 107.

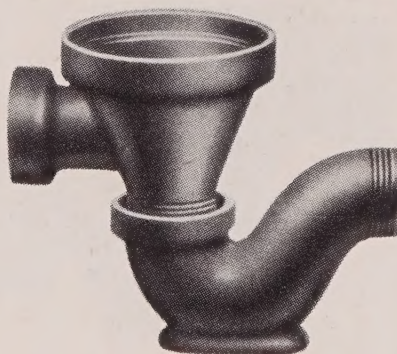
SALT GLAZED STONEWARE REVERSIBLE GULLIES

THE "ADJUSTABLE"

(IN TWO PIECES)

COMBINATION OF HOPPER AND TRAP.

SIZES :—
Hopper : 6" or 9" diameter
by 9" high.
Trap : 4" diameter outlet.



Supplied without inlets,
or with one, two or three
inlets.

See chart on page 30
for ordering when inlets
are required.

Raising pieces are also
supplied as illustration
(Fig. 103).

PLAIN HOPPER.



Fig. 109.

HOPPER WITH HORIZONTAL
INLET.

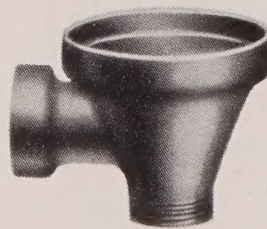


Fig. 110.

TRAP.



Fig. 108.

HOPPER WITH OBLIQUE
INLET.



Fig. 111.

Traps are supplied with P,
Q or S outlets, and are
supplied with inspection eye
if required (see dotted line).

HOPPER WITH VERTICAL INLET
FOR RAIN-WATER PIPE.

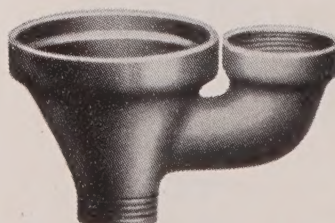


Fig. 112.

SALT GLAZED STONEWARE REVERSIBLE GULLIES

THE "MANOAKO"

(IN TWO PIECES, ADJUSTABLE)

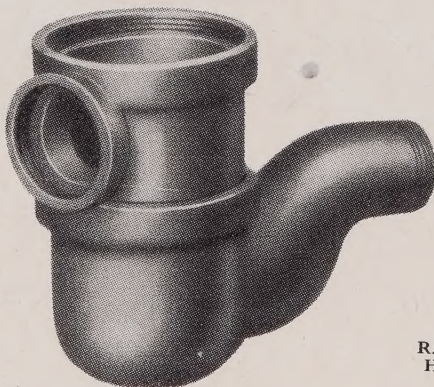
SIZES :—

Raising Piece : 4", 6", 9" or 12" diameter.

Trap : 4" diameter outlet.

Supplied without inlets, or with one, two or three inlets.

See chart on page 30 for ordering when inlets are required.



PLAIN RAISING PIECE.

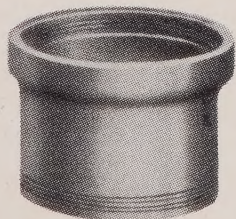


Fig. 113.

RAISING PIECE WITH HORIZONTAL INLET.

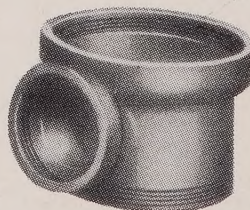


Fig. 114.



RAISING PIECE WITH OBLIQUE INLET.



Fig. 115.

RAISING PIECE WITH VERTICAL INLET FOR RAIN-WATER PIPE.

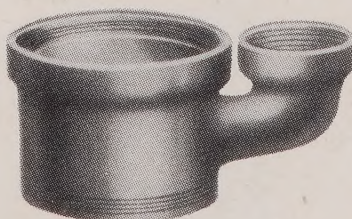
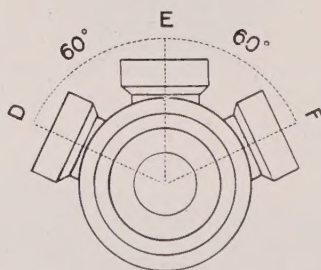
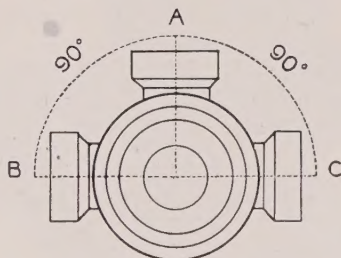


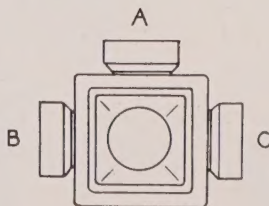
Fig. 116.

SALT GLAZED STONEWARE INLETS FOR HOPPERS

INLETS FOR CIRCULAR HOPPERS AND RAISING PIECES



INLETS FOR SQUARE HOPPERS AND RAISING PIECES



When more than one inlet is required, the positions should be described by quoting the letters shown in these diagrams.

SALT GLAZED STONEWARE CIRCULAR GULLIES AND DISHED TOPS

DISHED TOPS FOR CIRCULAR GULLIES

FOR CIRCULAR GRATING.

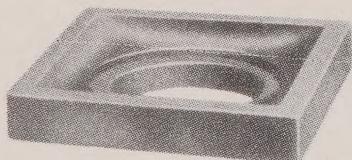


Fig. 117.

FOR SQUARE GRATING.

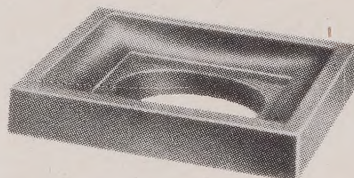


Fig. 118.

SIZES :—9" × 9" with 4" diameter opening.
12" × 12" with 6" diameter opening.
15" × 15" with 9" diameter opening.
(Also supplied with hinged grating.)

RECTANGULAR PATTERN also supplied. SIZES :—18" × 12", 24" × 12", and 28" × 12", with 6" opening.

COMBINATION TOP.

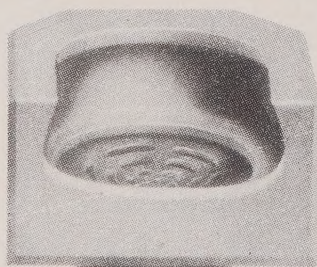


Fig. 120.

SIZE :—12" × 12" overall, 6" deep.

All patterns have spigot bases for fitting inside the socket of gullies, as is shown by the sectional illustration below.

CIRCULAR GULLEY.



Fig. 122.

SIZE :—6" diameter top,
4" diameter outlet.

SECTIONAL DRAWING SHOWING
COMBINED GULLEY AND DISHED
TOP.

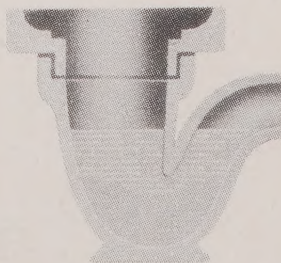


Fig. 122A.

Supplied with
P, Q or S traps and
inlets as required.

SALT GLAZED STONEWARE SLIPPER GULLIES

"DOCKING'S" GULLEY

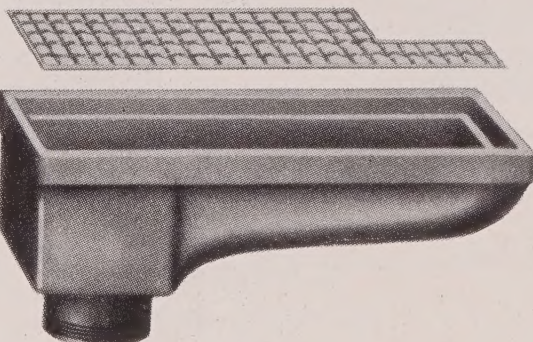


Fig. 123.



Fig. 122.

Supplied with loose wire cover, or iron grating, to intercept leaves, and the outlet provided with a grating to intercept solids, this Gulley is designed to provide for the disconnection of waste pipes from bath, sink, etc., and to prevent the ingress of foul air.

Size :—25" × 8" overall, with 4" or 6" outlet.

The trap supplied may have P, Q or S outlet, and, being loose, is adjustable.

SALT GLAZED STONEWARE CONNECTORS FOR GULLIES AND SINK BENDS

CONNECTORS FOR VERTICAL INLETS.



Fig. 124.
2" to 4".



Fig. 125.
2" to 4".

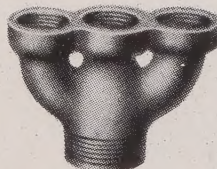


Fig. 126.
2" to 4".

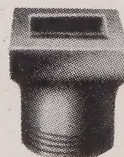


Fig. 127.
3" x 4" to 4".

FOR HORIZONTAL INLETS.



Fig. 128.
2" to 4".



Fig. 129.
2" to 4".

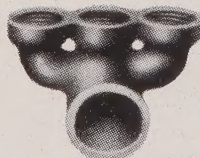


Fig. 130.
2" to 4".



Fig. 131.
4" x 3" to 4".

SINK BENDS

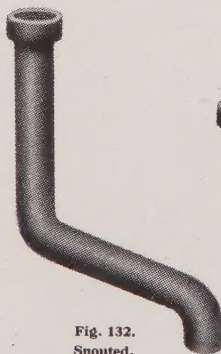


Fig. 132.
Snouted.



Fig. 133.
Snouted.

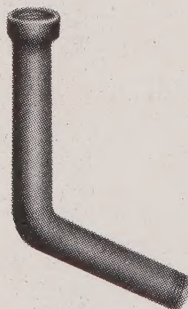


Fig. 134.
Plain.



Fig. 135.
Plain.

SIZES :—2" or 3" diameter, for 4½", 9" or 14" walls.

SINK TRAPS



Fig. 136.

2" or 3" diameter.
Also supplied with P or Q outlets.

SALT GLAZED STONEWARE RAIN-WATER SHOES, &c.

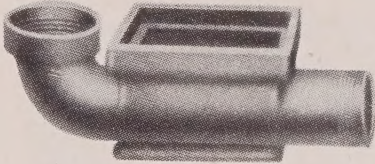


Fig. 137.

SIZES :—4" and 6".
(Can be supplied with side inlets.)

RAISING PIECE FOR OBLONG
RAIN-WATER SHOE.



Fig. 138.

6" high.

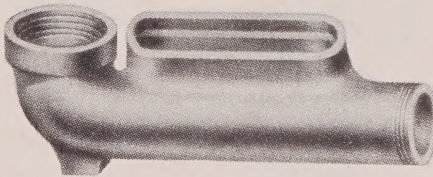


Fig. 139.

SIZES :—4" and 6".

(Also supplied with side inlets.)

Supplied with loose grating, grating and frame, or sealing plate and frame—
galvanised or black.

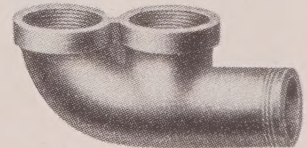


Fig. 140.

SIZES :—4" and 6".

TIMES TRAP.

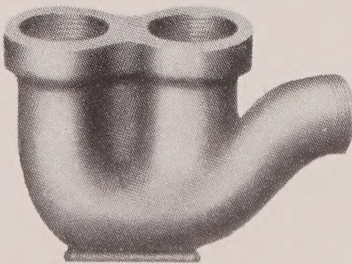


Fig. 141.

SIZES :—4" and 6".

RUST TRAPS.

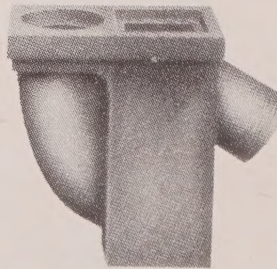


Fig. 142.

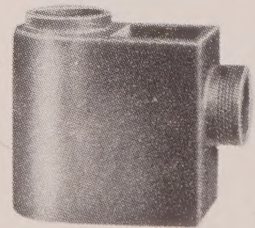


Fig. 143.

For fixing at the foot of rain-water pipes to intercept
rust. The access eye is fitted with galvanised sealing
plate and frame. SIZES :—4" and 6".

SALT GLAZED STONEWARE GREASE OR MUD GULLIES

DEAN'S GREASE GULLEY.

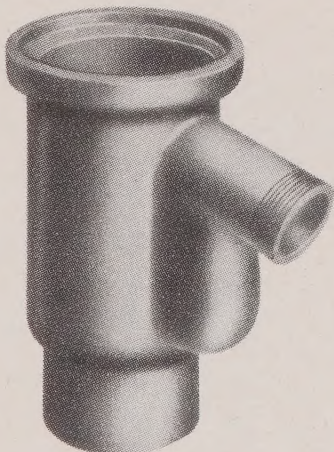


Fig. 144.

SECTION OF INSPECTION GREASE GULLEY.

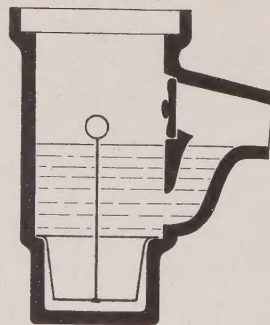


Fig. 145.

SIZES :—6" diameter, 4" outlet.
9" diameter, 4" outlet.
12" diameter, 4" outlet.

Also supplied with inspection eye (as sectional drawing).

ORDINARY PATTERN.

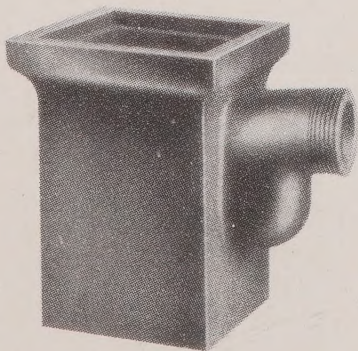
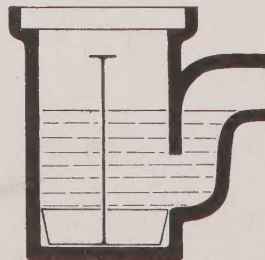


Fig 146.



SIZE :—9" × 9" grating, 4" outlet.
Supplied with or without inlet.

Supplied with black cast-iron or galvanised bucket for removing grease and silt.

SALT GLAZED PETROL OR GARAGE GULLEY

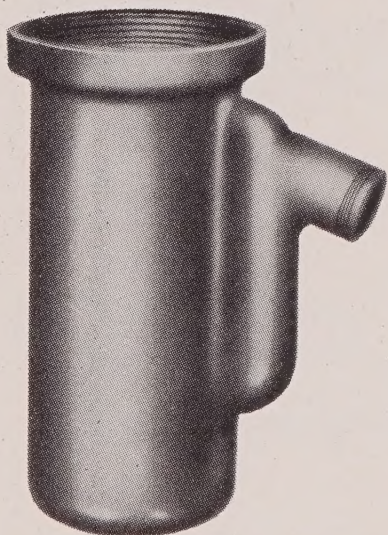
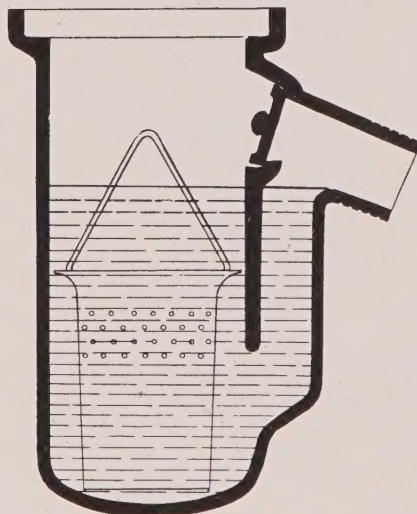


Fig. 147.



Section.

Designed for use in motor garages, to intercept petrol, oil, silt and grease. A galvanised bucket with perforations is supplied with the Gulley, ensuring that no greasy or heavy substance can pass into the sewer. An inspection opening with an airtight Stanford stopper allows easy access to the drain.

SIZES :—9" diameter, 24" deep.
12" diameter, 24" deep.

Can be supplied with inlets, if necessary.

SALT GLAZED PETROL BENDS FOR MOTOR GARAGE INTERCEPTING TANKS

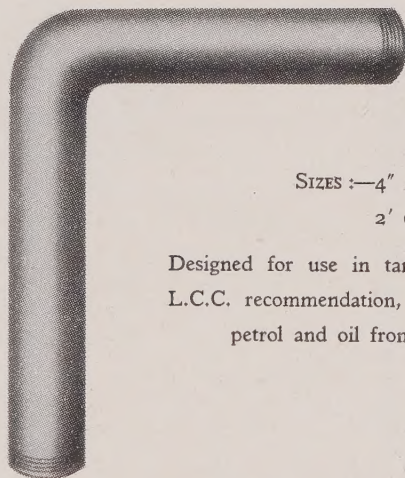
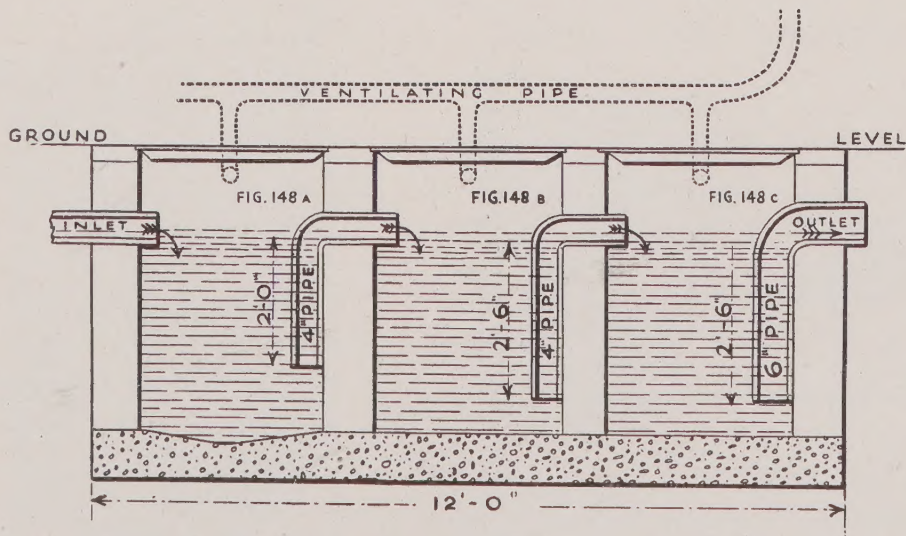


Fig. 148.

SIZES :—4" and 6" diameter.

2' 0" or 2' 6" long.

Designed for use in tanks, required to conform with L.C.C. recommendation, in order to trap and prevent petrol and oil from passing into the sewer.



SALT GLAZED STONEWARE ROAD GULLIES

INSPECTION ROAD GULLEY

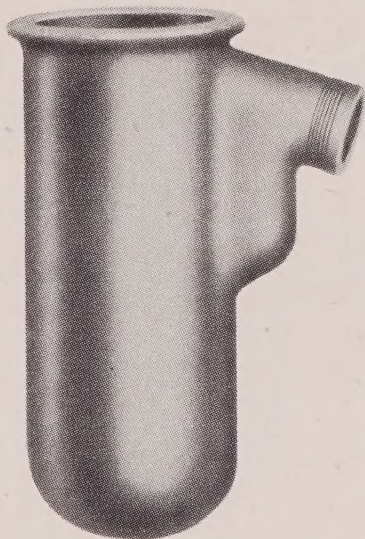


Fig. 149.

The inspection eye provides easy access to the drain, for clearing purposes.

It is fitted with a galvanised airtight sealing plate secured to a grooved frame with thumb screws, the frame being cemented into the inspection eye. It can also be fitted with a Stanford jointed stoneware stopper, or a wooden plug secured to the gully by a chain.

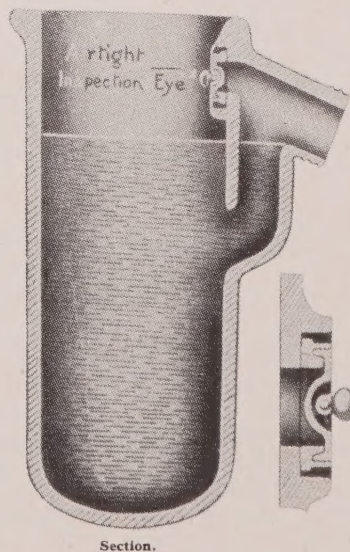
SIZES :—

- 9" diameter by 2' or 2' 6" deep.
- 12" diameter by 2', 2' 6" or 3' deep.
- 15" diameter by 2', 2' 6", 3' or 3' 6" deep.
- 18" diameter by 2', 2' 6", 3', 3' 6" or 4' deep.

9" and 12" diameter are usually supplied with 4" outlets; 15" and 18" diameter with 6" outlets.

Also made with 9" outlets to order.

Also supplied rectangular; sizes, 18" $\times$ 15" inside by 3', 3' 6", 3' 9" and 4' deep.



SALT GLAZED STONEWARE ROAD GULLIES

ORDINARY PATTERN

CIRCULAR.

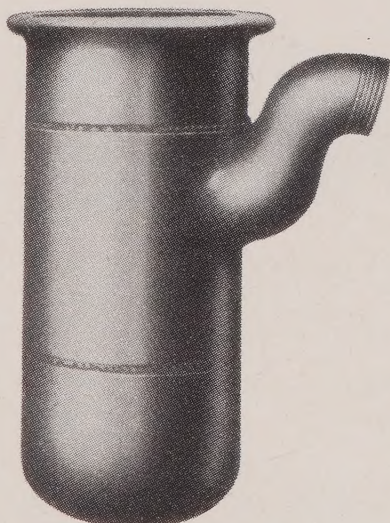
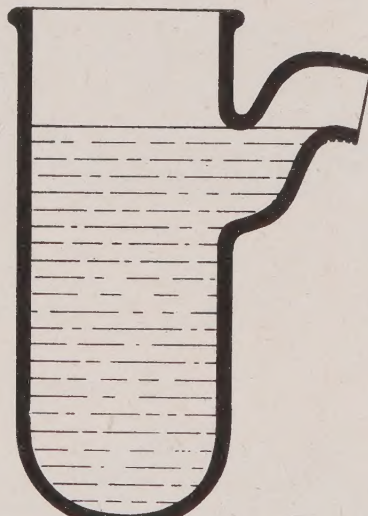


Fig. 150.



Section.

Made in the same sizes as Inspection Road Gullies (see page 38).

RECTANGULAR.

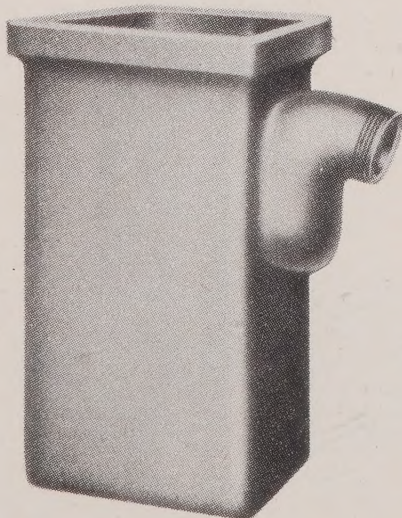


Fig. 151.

"LOOSE ARM" GULLEY

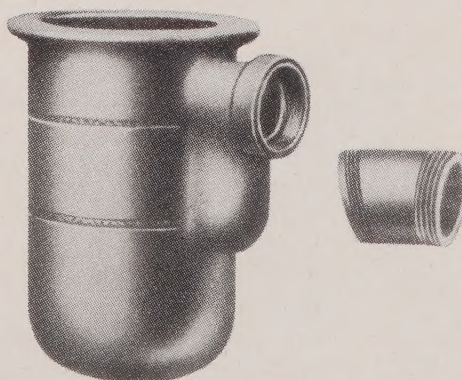


Fig. 152.

Made in the same sizes as ordinary gullies (see page 38), this gully is designed to obviate breakage at the arm or outlet. Loose outlet pieces are supplied straight or curved.

SALT GLAZED STONEWARE GULLIES

REBATED TOP GULLY

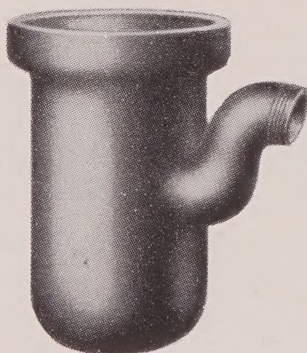


Fig. 153.

This gully is supplied with a rebated or socketed top, to allow of a loose grating being used.

SIZES :—

9" diameter by 2' and 2' 6" deep.

12" diameter by 2', 2' 6" and 3' deep.

GULLIES

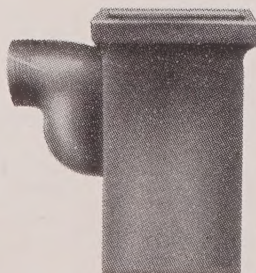


Fig. 154.

SIZES :—

9" x 9" x 15" deep.

4" diameter outlet.

TRAPLESS GULLY.



Fig. 155.

SIZES :—

6" diameter and upwards.

4" diameter outlet.

SALT GLAZED STONEWARE JUNCTION BLOCKS, &c.

JUNCTION BLOCKS

OBLIQUE.

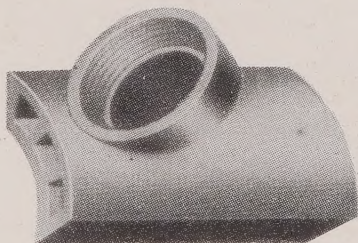


Fig. 156.

SQUARE.

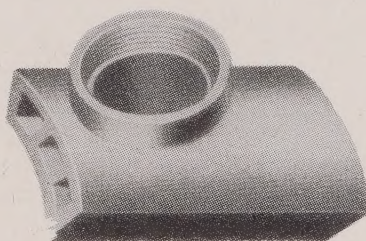


Fig. 157.

Junction Blocks are made for connecting pipe and brick sewers. They are supplied for $4\frac{1}{2}$ " or 9" brickwork, and to fit sewers of various dimensions. Oblique Junction Blocks are made for right-hand and left-hand branches. When ordering, the dimensions of the sewer, size of the branch and "hand" should be stated.

INVERT BLOCKS

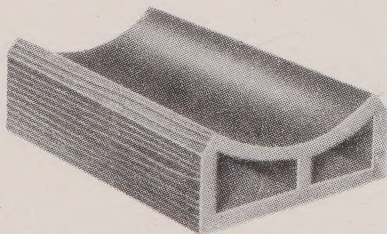


Fig. 158.

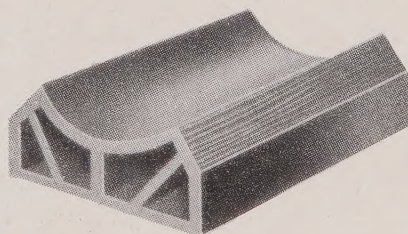


Fig. 159.

Invert Blocks may be supplied plain or lipped. Made to any radius required, and for $4\frac{1}{2}$ ", 6" or 9" brickwork.

STOP-GATE,
with wooden slide.

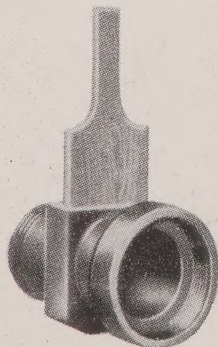


Fig. 160.

BLOCK FLAP
VALVE,
with ground face
and galvanised
metal flap.

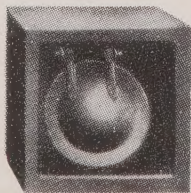


Fig. 162.

PIPE FLAP VALVE,
with ground face and
galvanised metal flap.

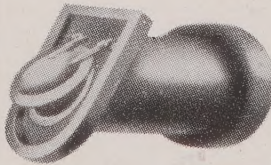


Fig. 163.

FLUSHING BLOCK,
with ground face and
four galvanised iron clips
to hold wooden slide.

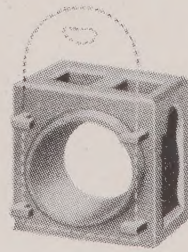


Fig. 161.

SIZES :—4", 6", 9", 12", 15" and 18" diameter, for 9" and 14" wall.

SIZES :—4", 6", 9", 12", 15" and 18" diameter.

SIZES :—6", 9", 12", 15" and 18" diameter.

SALT GLAZED STONEWARE GULLEY BLOCK

*FOR BUILDING INTO BRICK
GULLIES*

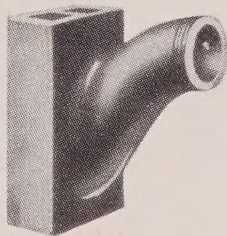


Fig. 164.

SIZES :—4", 6" and 9" diameter.
(Usual size, 6" diameter.)

INTERCEPTORS

SALT GLAZED STONEWARE INTERCEPTORS

THE "WINSER"

ORDINARY PATTERN.

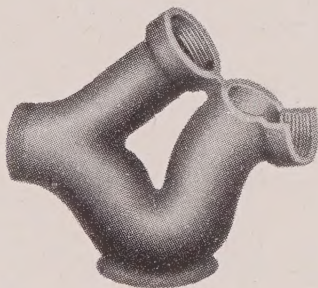


Fig. 165.

Compact, with ample depth of seal and flushed with a minimum of water, the "Winsor" is one of the most popular designs of intercepting traps.

LEVEL REST PATTERN.

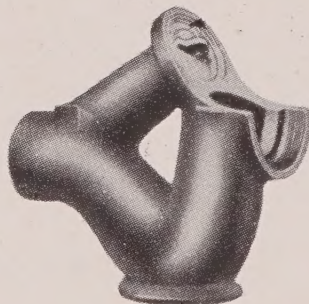


Fig. 166.

The ledges formed on the side of the Interceptor are in true alignment to provide a rest for a spirit level to ensure accuracy of fixing.

SIZES :—
4", 6" and 9" diameter.

Also with 4" inlet and
6" outlet.

Supplied with the inlet and outlet level, as illustrated, or with a fall between the inlet and outlet.

"EASY FLUSH" INTERCEPTOR

Designed for use where there is a minimum fall, and a specially "easy flush" is necessary.

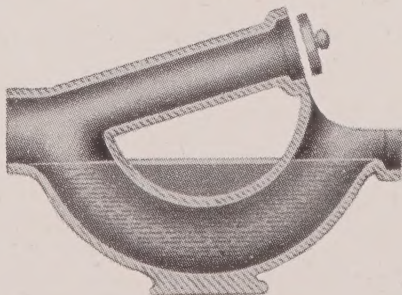


Fig. 167.

SIZES :—4" and 6" diameter.

Inlet and outlet are level.

Supplied with Stanford jointed stopper, unless otherwise ordered.

SALT GLAZED STONEWARE INTERCEPTORS

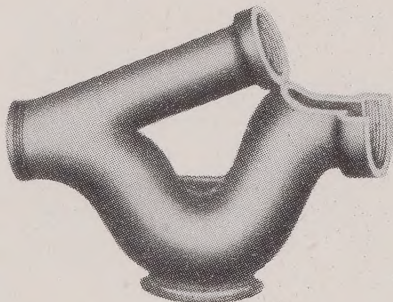


Fig. 168.

SIZES :—4", 6", 9" and 12" diameter.

Also supplied 4" to 6". Larger sizes to order.

THE "KENYON"

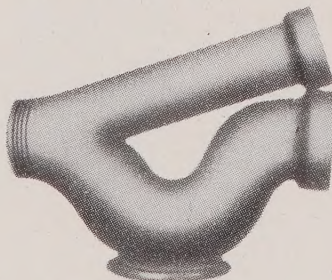


Fig. 169.

SIZES :—4", 6" and 9" diameter.

Supplied with Stanford jointed stopper unless otherwise ordered.

LEVER LOCKING STOPPER

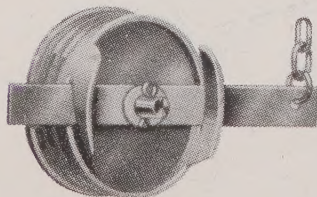


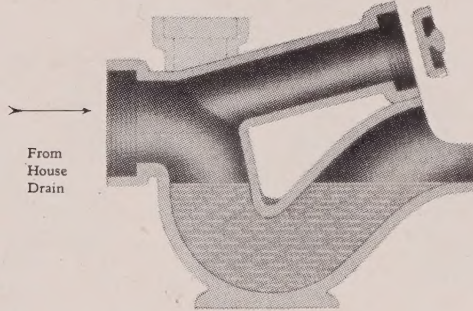
Fig. 170.

Supplied for fixing in the cleaning arm of Interceptors, if preferred in lieu of the stoneware Stanford jointed stopper. It is particularly suitable for use with Interceptors, Figs. 172 and 174. Usually supplied with 6 ft. of galvanised chain, and staple for fixing into the wall of the manhole.

SALT GLAZED STONEWARE INTERCEPTORS

REVERSE ACTION INTERCEPTOR

SIZES :—
4", 6" and 9"
diameter.



Supplied also with
air inlet on top of
cleaning arm, when
specially ordered.

Fig. 171.

In this Interceptor the cleaning eye looks up the drain instead of down. Its object is to dispense with an inspection chamber where house connections on opposite sides of the common drain meet at the double junction.

THE "BRIGHTON."

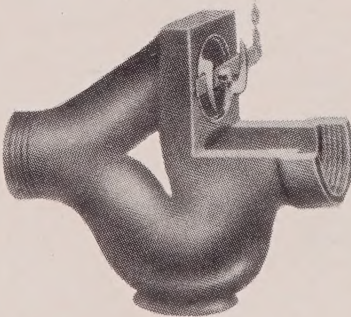


Fig. 172.

SIZES :—4", 6" and 9" diameter.
Offering economy of space and neatness,
the square flange round the cleaning arm
enables the Interceptor to be built flush
into the wall of the manhole.

INTERCEPTING CHANNEL SYPHON.

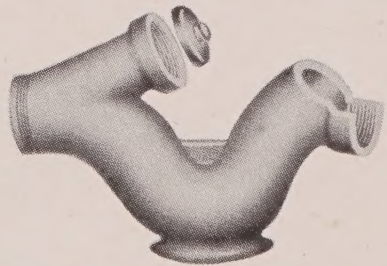


Fig. 173.

SIZES :—4", 6" and 9" diameter.

SIZES :—
4", 6" and 9"
diameter.

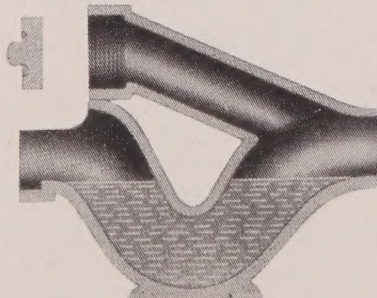


Fig. 174.

All Interceptors are
supplied with Stan-
ford jointed stopper,
unless otherwise
ordered.

SALT GLAZED STONEWARE INTERCEPTING TRAPS

THE "BUCHAN" TRAP

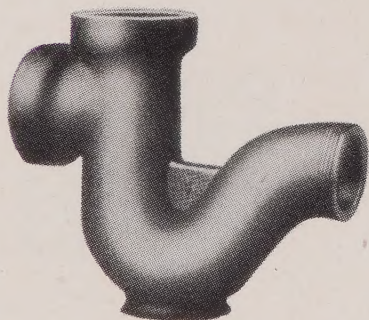
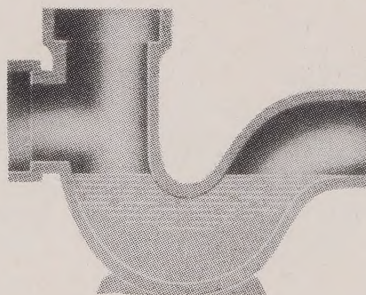


Fig. 175.

SIZES :—4", 6" and 9" diameter.

Also supplied with horizontal inlet on the spigot end, when specially ordered.



Section.

SIZES :—
4" and 6" diameter.

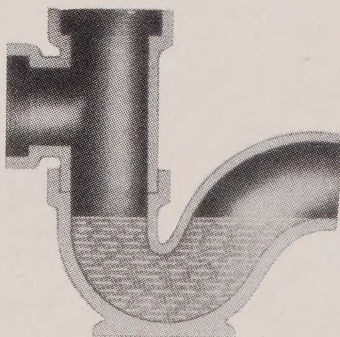


Fig. 176 (in two pieces).

The trap being separate,
the outlet is adjustable.

Also supplied with
inspection eye on the
outlet.

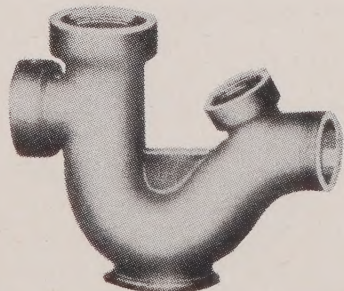
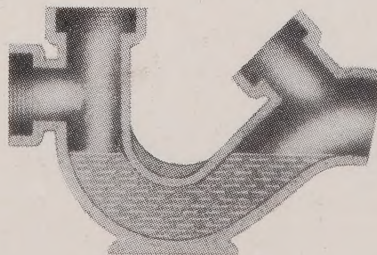


Fig. 177

SIZES :—4", 6" and 9" diameter.

This intercepting trap is supplied the same diameter throughout, or tapering (4" inlet, 6" outlet, or 6" inlet, 9" outlet), as shown by the section drawing.



Section.

SALT GLAZED STONEWARE TRAPS AND SYPHONS

TRAPS

P. TRAP.

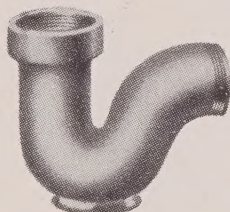


Fig. 178.

Q. TRAP.



Fig. 179.

S. TRAP.

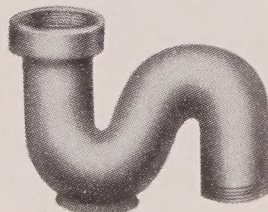


Fig. 180.

SIZES :—4", 6" and 9" diameter.

SYPHONS

PLAIN PATTERN.



Fig. 181.

WITH CENTRE INLET.

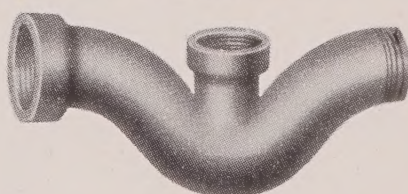


Fig. 182.

SYPHON, WITH INLET ON SOCKET END.

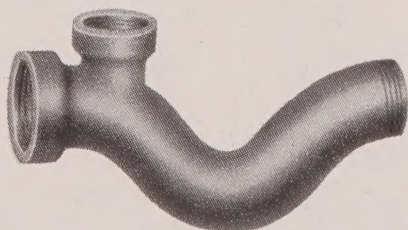


Fig. 183.

SYPHON, WITH OBLIQUE INLET.



Fig. 184.

SIZES :—4", 6", 9" and 12" diameter.
(Larger sizes to order.)

SPECIAL JOINTS
FOR
STONEWARE PIPES

THE "STANFORD" JOINT

"STANFORD" JOINTED PIPE

ALLOWING SPACE IN THE SOCKET FOR CEMENT.

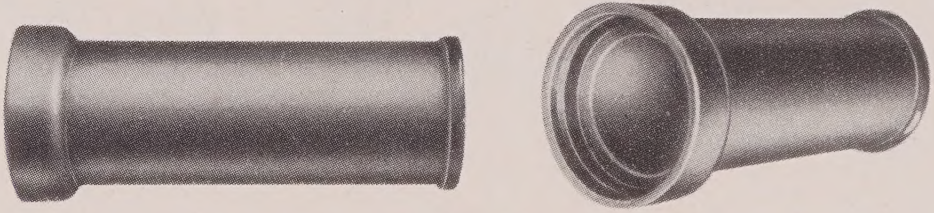


Fig. 185

THE "STANFORD" JOINT DESCRIBED

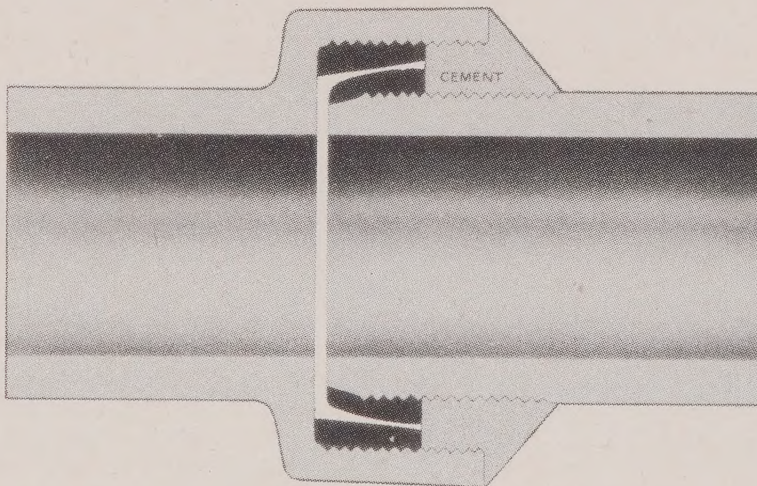
The "Stanford Joint" is the original type of composition joint, and consists of rings of bituminous composition cast in the socket and on the spigot of the pipe.

In laying Stanford-Jointed pipes, the spigot of one is inserted in the socket of another already laid, the joint surfaces having previously been smeared with some kind of grease, and when pushed home, a watertight true invert joint is formed.

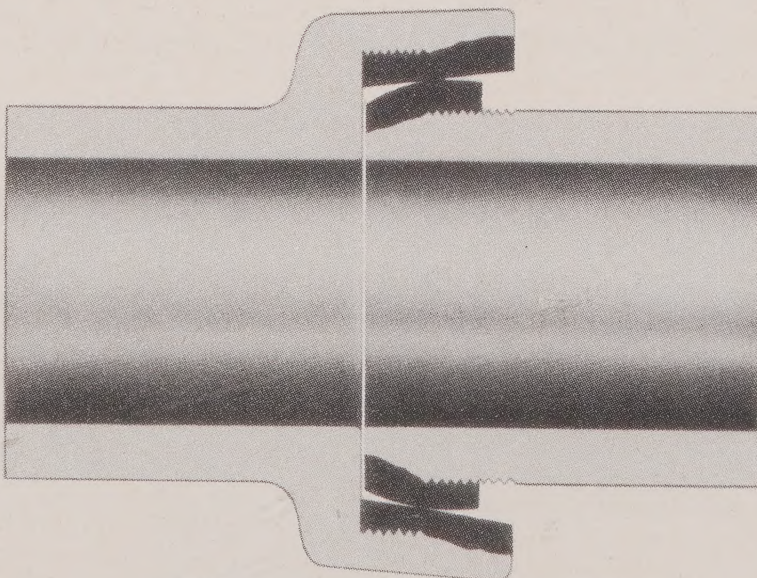
The composition rings are cast in a spherical manner, and form, therefore, a flexible joint, not ruptured by any subsidence of the ground.

The illustrations on the page opposite show the original type of joint, which provides for the full depth of the socket of the pipe being coated with the composition ring; and also the newer type of Stanford Joint, which provides space in the socket for a fillet of cement, and thus secures a double seal.

THE "STANFORD" JOINT



SECTION SHOWING SPACE IN SOCKET FOR CEMENT.



SECTION SHOWING ORIGINAL TYPE OF JOINT.

THE "HASSALL'S" JOINT

THE HASSALL'S SINGLE-LINED JOINT

This joint consists of bituminous composition rings, one of which is cast in the socket, and the other on the spigot. A space is left in the socket for cement for the jointing of the pipes, which is effected in the following manner:—

Plastic cement (supplied with the pipes) is applied to the face of the composition ring at the bottom of the socket. The spigot is then inserted and pressed home.

If the pipes are supplied with pour-holes, the mouth of the socket is closed with a round of clay, and cement grout is poured through the pour-hole, into the cavity in the socket. When the pipes are supplied without pour-holes, an aperture is left at the top of the clay used for closing the socket, into which the cement grout is poured.

THE HASSALL'S DOUBLE-LINED JOINT

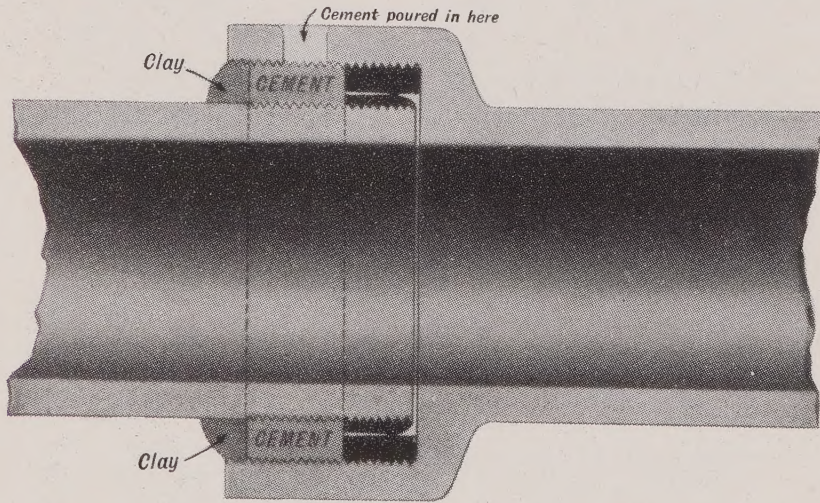
This joint consists of four bituminous composition rings, two of which are cast in the socket, and two corresponding rings on the spigot, an annular space for cement being left between the two rings of composition.

The method of jointing is to apply plastic cement to the face of the composition lining, at the bottom of the socket, and also to the groove in the composition lining cast on the spigot. The spigot is then inserted and pressed home, and cement grout is poured through the pour-hole in the socket into the cavity formed between the two rings of composition.

Thus, a treble seal is secured.

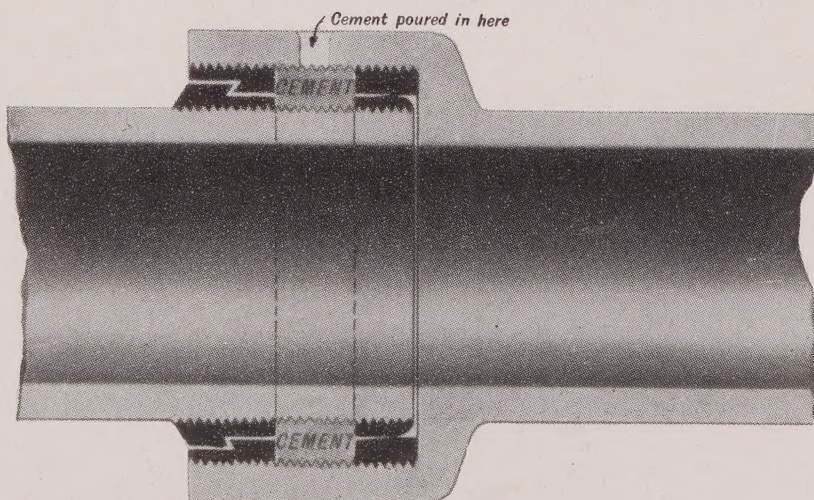
THE "HASSALL'S" JOINT

THE HASSALL'S SINGLE-LINED JOINT



Pour-holes are provided in the socket, through which grouted cement is poured.
(Also supplied without pour-holes.)

THE HASSALL'S DOUBLE-LINED JOINT



THE "OANCO" JOINT

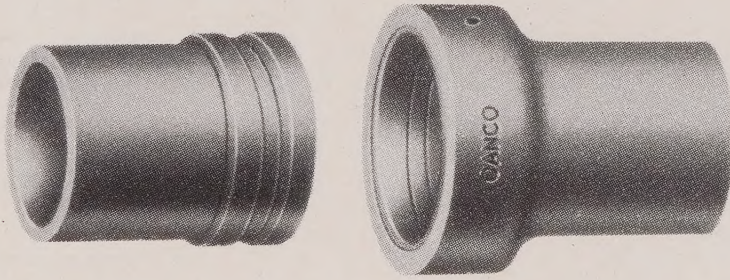
THE "OANCO" JOINT

The "Oanco" Joint is formed by casting a bituminous composition ring in the socket, and a corresponding ring on the spigot of the pipe, grooved to form a cavity when the spigot is inserted in the socket, and pushed home for jointing. The socket of the pipe contains pour-holes for use in filling the cavity in the composition joint.

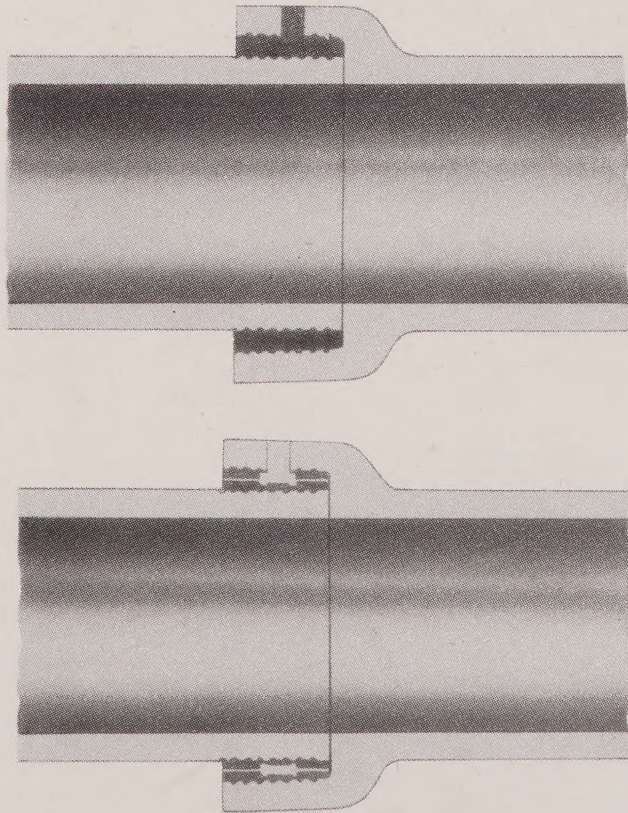
A bituminous compound is supplied with the pipes, which merely requires melting for fixing the joint. The spigot of one pipe having been inserted in the socket of the next, the heated liquid bitumen is poured in the cavity, and the joint is made. No cement is necessary; true alignment of invert is ensured, and watertightness guaranteed.

If desired, cement can be used for filling in the cavity, but it is unnecessary, and destroys one of the main features of the joint, namely, its flexibility.

THE "OANCO" JOINT



CAN BE TESTED FIVE MINUTES AFTER BEING LAID.
SUITABLE ALIKE FOR GOOD AND BAD GROUND.



THE SELF-CENTRING "S.C." JOINT

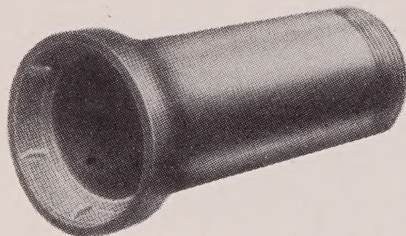
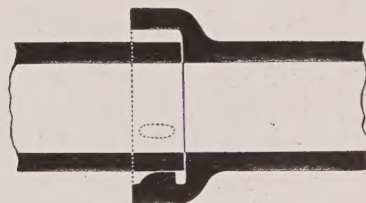


Fig. 186.



Section, showing pipe in work.

The Self-Centring Joint consists of three nubs or projections of stoneware formed in the socket of the pipe during the process of manufacture.

These nubs or projections vary in size, according to the diameter of the pipe, so that when the spigot of one pipe is inserted in the socket of the next pipe, the base level or invert of each pipe is in true alignment.

Made in all usual sizes.

SELF-CENTRING CHANNEL PIPES ALSO SUPPLIED.

THE SELF-ALIGNING JOINT

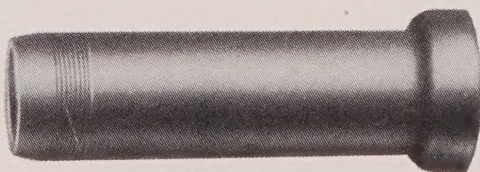
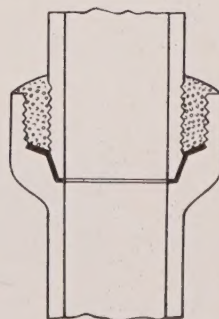


Fig. 188.



An alternative type of self-centring joint, formed by the tapering of the outer edge of the spigot end of the pipe to correspond with a tapered inner socket.

Plastic cement (supplied with the pipes) forms a preliminary joint, and the jointing is completed by the use of Portland cement.

Usually supplied in sizes 2" to 12" diameter.

BACTERIA BED TILES

SALT GLAZED STONEWARE BACTERIA BED TILES

SEMI-CIRCULAR TILE

The feet of the tiles fit closely together, and each channel formed is flushed separately.



Fig. 189.

SIZE :—12" wide, 6½" long, 5½" deep.

The projecting lugs keep the body of the tiles apart and form slots between each tile, to provide the means for drainage.

JUNCTION TILE—
THREE-WAY.

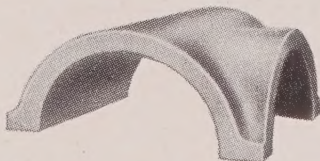


Fig. 190.

TILE WITH
VENTILATING INLET.

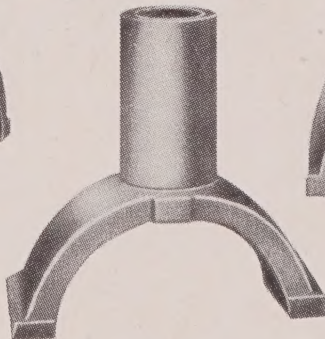


Fig. 191.

JUNCTION TILE—
FOUR-WAY.



Fig. 192.

SPLAYED TILES TO FIT OUTSIDE WALL OF BED.



Fig. 193.

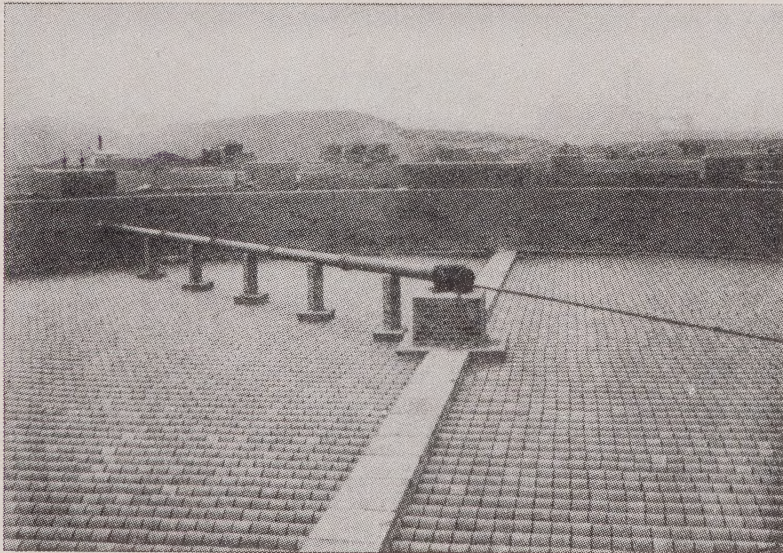


Fig. 194.

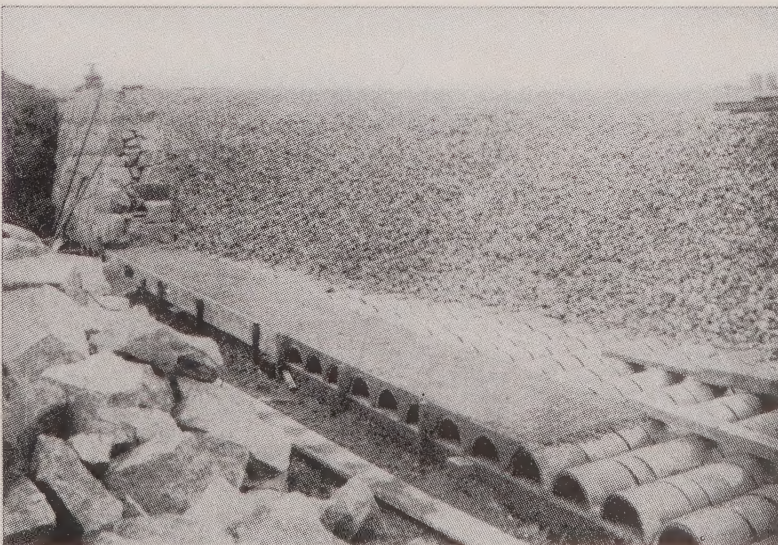
Tested to carry a weight of 6 tons per sup. yard, which is much greater than the tiles have to bear in actual work.

SALT GLAZED STONEWARE BACTERIA BED TILES

SEMI-CIRCULAR TILE



PHOTOGRAPH OF BED, SHOWING TILES LAID.



TO SHOW THE METHOD OF CONSTRUCTING A WALL OVER THE TILES, THE TILES TO DISCHARGE INTO CHANNEL OUTSIDE THE BED.

SALT GLAZED STONEWARE BACTERIA BED TILES

FLAT TOPPED PATTERN

SLOTTED.

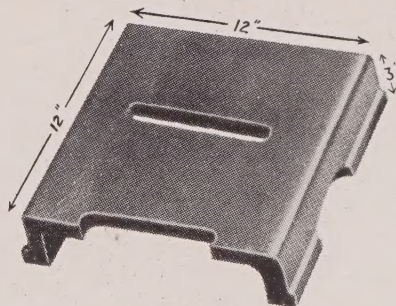


Fig. 195.

The slots are tapered upwards so as to prevent their getting choked with media.

NOTCHED AND SLOTTED CHANNEL PIPES FOR BACTERIA BEDS

UNSOCKETED.



Fig. 196.

SOCKETED.



Fig. 196a.

UNSOCKETED.



Fig. 197.

Also supplied with socket (Fig. 197a) and with or without slots in top of the arch.

TILES FOR UNDERDRAINS

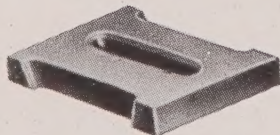
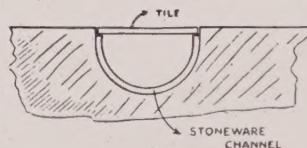


Fig. 198.

Size :—9" × 6" × 1½".



In cases where channels are formed in the floor of the filter for drainage purposes, flat slotted tiles are supplied to cover the channel.

SALT GLAZED STONEWARE BACTERIA BED TILES

ARCHED TILE

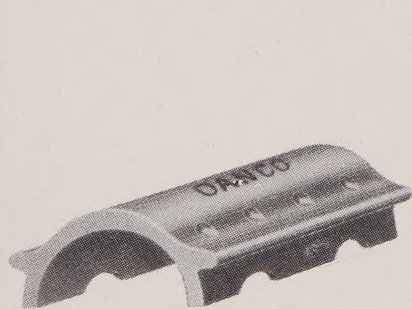


Fig. 199.

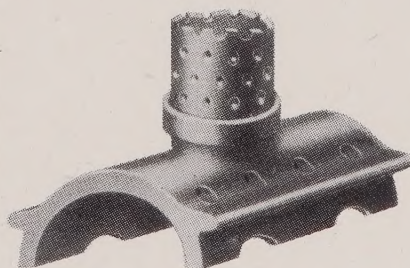
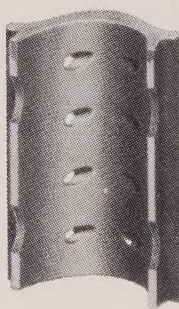


Fig. 200.

SIZE :—18" long, by 12" wide, by 6" high.

This tile has been designed to withstand the most severe handling, by the strengthening of the top arch. Tests have demonstrated that the tiles are capable of carrying a load of 16 tons per sup. yard.

A distinguishing feature of these tiles, as compared with other tiles, is that the aerating holes are placed laterally through the crown, and thus any possibility of clinker falling on the floor of the bed is obviated.

Tiles with ventilating inlet for carrying perforated pipes, vertically, can be supplied, as illustrated.

For circular, or specially designed beds, outer tiles are cut specially to conform to the diameter or special shape.

CATTLE TROUGHS

SALT GLAZED STONEWARE CATTLE TROUGHS

SOCKETED CHANNEL TROUGH.

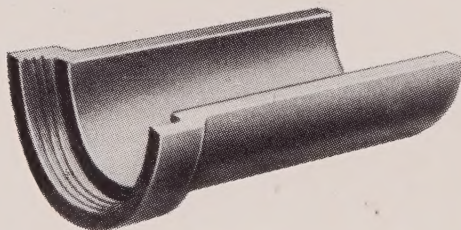


Fig. 201.

PLAIN CHANNEL TROUGH.

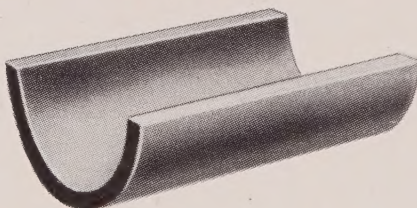


Fig. 202.

SOCKETED CHANNEL TROUGH,
WITH STOP END.

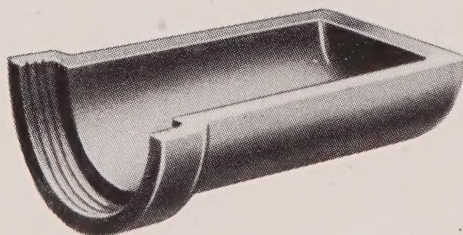


Fig. 203

PLAIN CHANNEL TROUGH,
WITH STOP END.

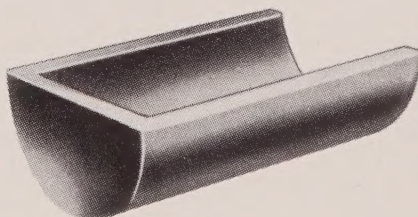


Fig. 204.

SOCKETED CHANNEL TROUGH,
WITH STOP END AND OUTLET.

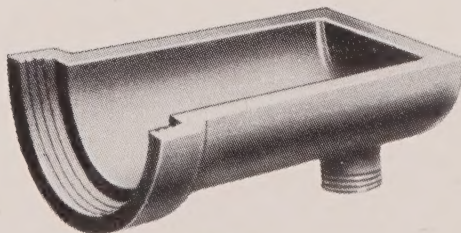


Fig. 205.

MADE IN SIZES :—12", 15" and 18" diameter,
in 2', 2' 6" or 3' lengths.

**SALT GLAZED
STONEWARE CONDUITS
and TROUGHS
for UNDERGROUND
ELECTRIC CABLES**

SALT GLAZED STONEWARE CONDUITS

With Self-Aligning Joints

SINGLE-WAY

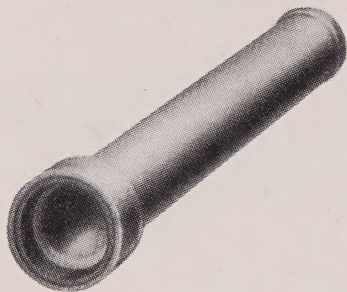


Fig. 206.

SIZES :—3", 3½", 4" and 6" diameter,
in 2' lengths.

TWO-WAY

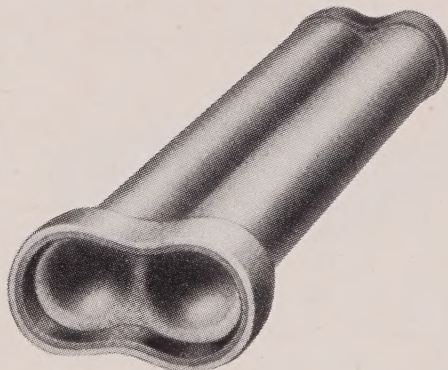


Fig. 207

SIZES :—3½" and 4" diameter,
in 2' lengths.

Supplied with Stanford joint, as illustrated, to ensure true alignment when laying, and with rounded internal ends so that there may be no rough edges to injure the cable whilst being drawn through the duct.

Made also with plain socket for cement joints.

THREE-WAY

(CLUSTER).



Fig. 208.

SIZES :—3½" and 4" diameter, in 2' 6" lengths.

Also supplied in flat type in 3½" and 4" diameter.

Bell-mouths supplied.

Bends supplied to any required radius.

SALT GLAZED STONEWARE CONDUITS

With Self-Aligning Joints

FOUR-WAY

(CLUSTER).

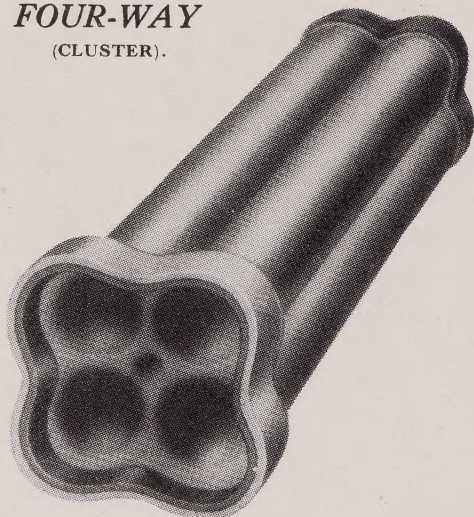


Fig. 209.

SIZES :— $3\frac{1}{2}$ " and 4" diameter, in 2' 6" lengths.
Also supplied in flat type in $3\frac{1}{2}$ " and 4" diameter.

SIX-WAY

(CLUSTER).



Fig. 210.

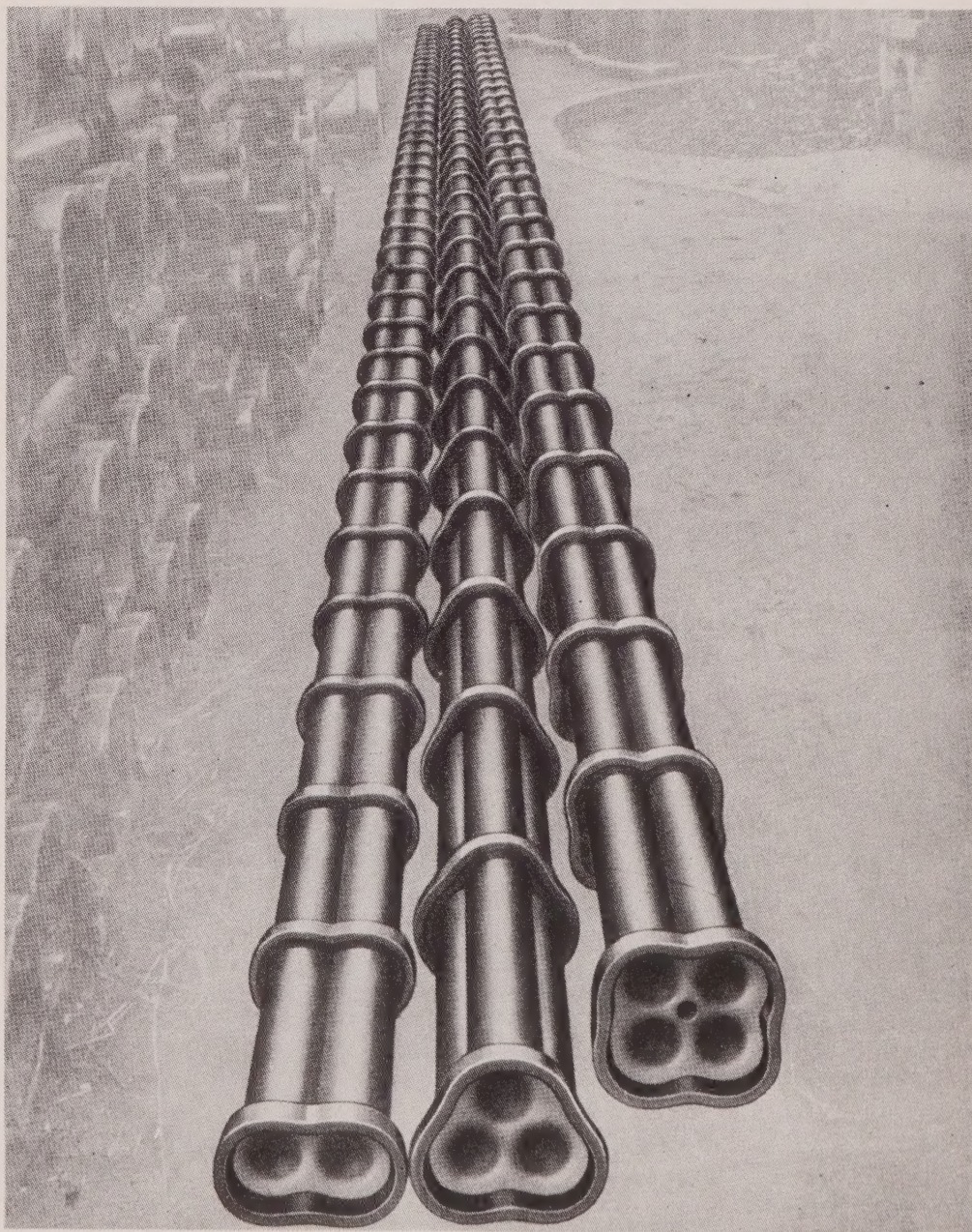
SIZES :— $3\frac{1}{2}$ " and 4" diameter, in 2' 6" lengths.

Bell-mouths supplied.

Bends supplied to any required radius.

SALT GLAZED STONEWARE CONDUITS

With Stanford Self-Aligning Joints



TAKEN FROM PHOTOGRAPH OF AN ACTUAL TEST FOR TRUE ALIGNMENT.

SALT GLAZED STONEWARE OCTAGON DUCT AND TROUGHS

OCTAGON DUCT

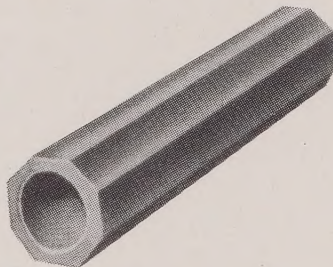


Fig. 211.

Circular inside and octagonal outside.

SIZES :—3", 3½" and 4" diameter, in 18" and 24" lengths.

Supplied with rounded interior edges to avoid damage to the cable.

TROUGHS

U-SHAPED PATTERN AND COVER.

RECTANGULAR PATTERN.

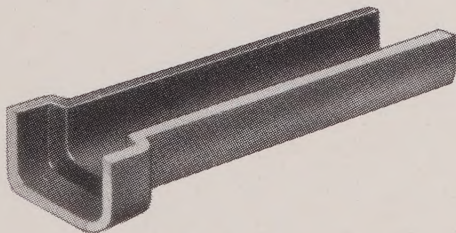


Fig. 212.

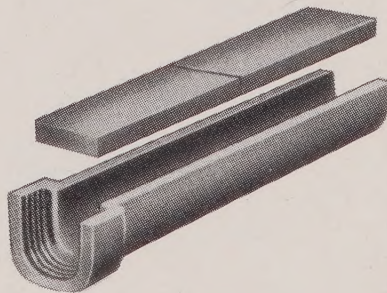


Fig. 213.

For standard sizes, see page 70.
Other sizes made specially to order.

BEND AND COVER.

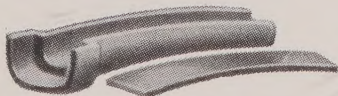


Fig. 214.

DOUBLE SOCKETED BEND.

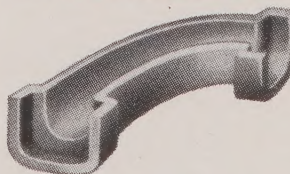


Fig. 215.

Made in varying radii to suit customers' individual requirements.

STANDARD SIZES AND APPROXIMATE WEIGHTS OF TROUGHS

SQUARE.

2" × 2"	..	..	..	..	..	..	175 yards to one ton.
2½" × 2½"	..	..	..	..	..	..	155 " " "
2½" × 2½"	..	..	..	..	..	..	140 " " "
2¾" × 2¾"	..	..	..	..	..	..	126 " " "
3" × 3"	..	..	..	..	..	..	115 " " "
3½" × 3½"	..	..	..	..	..	..	107 " " "
3½" × 3½"	..	..	..	..	..	..	98 " " "

RECTANGULAR.

2½" × 2"	..	..	..	..	..	..	154 " " "
2¾" × 1¾"	..	..	..	..	..	..	160 " " "
3½" × 2½"	..	..	..	..	..	..	135 " " "
4" × 1¾"	..	..	..	..	..	..	135 " " "
4" × 2"	..	..	..	..	..	..	129 " " "
4½" × 2"	..	..	..	..	..	..	116 " " "
4¾" × 2"	..	..	..	..	..	..	115 " " "
5" × 3½"	..	..	..	..	..	..	83 " " "
5½" × 2½"	..	..	..	..	..	..	97 " " "

U-SHAPED.

2"	..	..	..	..	..	..	185 " " "
3"	..	..	..	..	..	..	136 " " "

WEIGHTS OF CONDUITS

SIZE.

3" Single-way	..	..	..	..	..	100 yards to one ton.
3½" " "	..	..	..	..	..	90 " " "
4" " "	..	..	..	..	..	80 " " "
6" " "	..	..	..	..	..	50 " " "
3½" Two-way	..	..	..	..	..	37 " " "
4" " "	..	..	..	..	..	32 " " "
3½" Three-way Cluster	..	..	..	..	..	26 " " "
4" " "	..	..	..	..	..	21 " " "
3½" " Flat	..	..	..	..	..	24 " " "
4" " "	..	..	..	..	..	20 " " "
3½" Four-way Cluster	..	..	..	..	..	22 " " "
4" " "	..	..	..	..	..	17½ " " "
3½" " Flat	..	..	..	..	..	21 " " "
3½" Six-way	..	..	..	..	..	14½ " " "
3½" Nine-way	..	..	..	..	..	10½ " " "

IRONWORK

IRON GRATINGS FOR GULLIES

HEAVY CAST-IRON STREET GRATING AND FRAME

WITH THREE FLANGES.

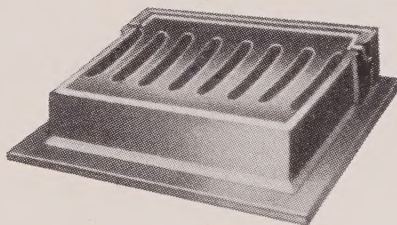


Fig. 216.

The special hinging arrangement of this grating allows the grating to be removed from the frame while *in situ* without any disturbance to the road surface.

Supplied either flat or slightly dished.

No.	GRATE.	BASE.	DEPTH.	APPROXIMATE WEIGHT.
Size A	13" × 11"	17" × 15"	3"	0 cwt. 2 qrs. 14 lbs.
„ B ₁	16" × 14"	23" × 19"	5"	1 cwt. 3 qrs. 14 lbs.
„ B ₂	16" × 16"	22½" × 20"	5"	2 cwts. 0 qr. 14 lbs.
„ C ₁	17" × 14"	24" × 19"	5½"	2 cwts. 1 qr. 0 lb.
„ C ₂	18" × 16"	20½" × 25"	5"	2 cwts. 1 qr. 14 lbs.
„ D ₁	20" × 14"	28" × 19"	6"	2 cwts. 1 qr. 0 lb.
„ D ₂	20" × 14"	28" × 19"	6"	2 cwts. 2 qrs. 0 lb.
„ D ₃	20" × 14"	28" × 19"	6"	2 cwts. 3 qrs. 0 lb.
„ E	20" × 17"	26" × 21"	6"	3 cwts. 0 qr. 0 lb.
„ F	22" × 16"	30" × 21"	6"	3 cwts. 0 qr. 0 lb.
„ G	24" × 17"	31½" × 22"	6"	3 cwts. 0 qr. 7 lbs.

IRON GRATINGS FOR GULLIES

HEAVY HINGED GRATING AND FRAME WITH FOUR FLANGES.

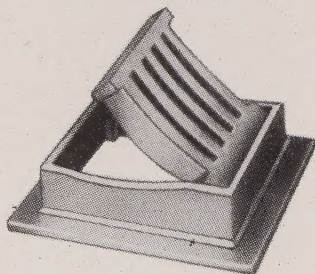


Fig. 217.

No.	GRATE.	BASE.	DEPTH.	APPROXIMATE WEIGHT.
Size A	9" × 9"	12" × 12"	3½"	0 cwt. 2 qrs. 7 lbs.
„ B	12" × 11"	18" × 17"	5"	1 cwt. 1 qr. 0 lb.
„ C	13" × 13"	24" × 24"	6"	2 cwts. 0 qr. 21 lbs.

“STORMWATER” PATTERN GRATING AND FRAME

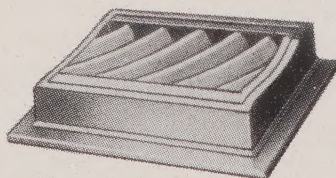


Fig. 218.

GRATE.	BASE.	DEPTH.	APPROXIMATE WEIGHT.
23" × 16"	30" × 20"	6"	2 cwts. 3 qrs. 14 lbs.

Supplied either right-hand or left-hand (right-hand illustrated).
 “Stormwater” Gratings and Frames should be fixed with the vertical side of the bars facing upstream, so that the flow is deflected towards the kerb.

IRON GRATINGS FOR GULLIES

GRATINGS AND SEALING PLATES FOR YARD GULLIES, Etc.

DISHED GRATING, SQUARE.



Fig. 219.

SIZES :—

4" × 4"	8" × 8"
5" × 5"	9" × 9"
6" × 6"	10" × 10"
7" × 7"	12" × 12"

HINGED GRATING AND FRAME, SQUARE.

Supplied without Lock and Key
unless specially ordered.
Extra charge for Lock and Key.



Fig. 220.

SIZES :—

6" × 6"
8" × 8"
9" × 9"

SEALING PLATE AND FRAME, SQUARE. Ordinary or Locking.

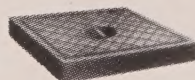


Fig. 221.

SIZES :—

6" × 6"
8" × 8"
9" × 9"

CIRCULAR-HINGED GRATING AND FRAME.

Supplied without Lock and Key
unless specially ordered.
Extra charge for Lock and Key.

DISHED GRATING, CIRCULAR.



Fig. 222.

SIZES :—

5 1/4" for 4" sockets.
7 1/4" " 6" "
11 1/4" " 9" "
15 1/4" " 12" "

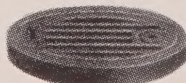


Fig. 223.

SIZES :—

5 1/4" for 4" sockets.
7 1/4" " 6" "
11 1/4" " 9" "

SEALING PLATE AND FRAME, CIRCULAR. Ordinary or Locking.



Fig. 224.

SIZES :—

5 1/4" for 4" sockets.
7 1/4" " 6" "

SQUARE GRATINGS, for Shallow Rebates.



Fig. 225.

SIZES :—

4" × 4"	8" × 8"
5" × 5"	9" × 9"
6" × 6"	12" × 12"

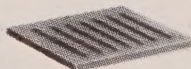


Fig. 226.

SIZES :—

4" × 4"	8" × 8"
5" × 5"	9" × 9"
6" × 6"	12" × 12"

FLAT CIRCULAR GRATING, for Pipe Sockets.

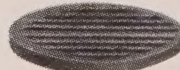


Fig. 227.

SIZES :—

5 1/4" for 4" sockets.
7 1/4" " 6" "

RECTANGULAR GRATING.

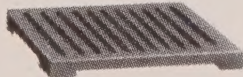


Fig. 228.

SIZE :—
10" × 6"

RECTANGULAR HINGED GRATING AND FRAME. With or without Lock and Key. Extra charge for Lock and Key.

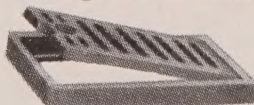


Fig. 229.

SIZE :—
10" × 6"

RECTANGULAR SEALING PLATE AND FRAME. Ordinary or Locking.



Fig. 230.

SIZE :—
10" × 6"

IRON GRATINGS FOR GULLIES

HINGED GRATING AND
FRAME, CAST IRON.
(Also supplied with Lock and Key,
and extra charge for same.)

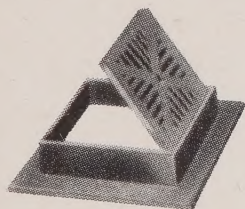


Fig. 231.

SIZE IN CLEARANCE :—

6" × 6"
8½" × 8½"

HINGED WROUGHT GRATING
AND CAST FRAME.
Gun-Metal Lock
(extra charge for Key).

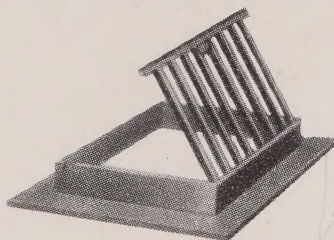


Fig. 232.

SIZE IN CLEARANCE :—

6" × 6"
9" × 9"
12" × 12"

HINGED WROUGHT GRATING
AND FRAME, WITH
STRAIGHT BARS.
Gun-Metal Lock
(Extra charge for Key).

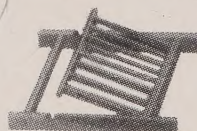


Fig. 233.

SIZE IN CLEARANCE :—

6" × 6"
9" × 9"
12" × 12"

STEP IRONS FOR MANHOLES

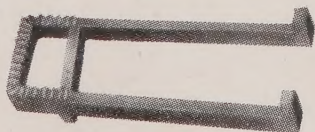


Fig. 234.



Fig. 235.

CAST IRON, PAINTED, GALVANISED.			APPROXIMATE WEIGHT.
For 4½" brickwork	..	..	5½ lbs.
" 9" "	..	..	6½ lbs.
" 9" "	..	..	8½ lbs.
" 9" "	..	..	9½ lbs.
" 9" "	..	..	13½ lbs.

WROUGHT IRON, PAINTED, GALVANISED.			APPROXIMATE WEIGHT.
For 4½" brickwork	..	..	3½ lbs.
" 9" "	..	..	6 lbs.
MALLEABLE IRON, GALVANISED.			APPROXIMATE WEIGHT.
For 4½" brickwork	..	..	2¼ lbs.
" 9" "	..	..	3½ lbs.
" 9" "	..	..	5½ lbs.

APPROXIMATE WEIGHTS.



2" diameter	-	-	-	150 yards to one ton.			
3" "	-	-	-	108	"	"	"
4" "	-	-	-	80	"	"	"
5" "	-	-	-	60	"	"	"
6" "	-	-	-	51	"	"	"
7" "	-	-	-	40	"	"	"
8" "	-	-	-	32	"	"	"
9" "	-	-	-	28	"	"	"
10" "	-	-	-	25	"	"	"
12" "	-	-	-	18	"	"	"
15" "	-	-	-	10	"	"	"
18" "	-	-	-	7 $\frac{1}{2}$	"	"	"
21" "	-	-	-	6	"	"	"
24" "	-	-	-	5	"	"	"

*We are also suppliers
of the following :*

**SIRAPITE - PLASTER
LIME - AIR BRICKS
CHIMNEY POTS
PARTITION SLABS
WHITE
GLAZED GOODS
SANITARY GOODS
PRECAST CONCRETE
PRODUCTS**

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AND ROOF LINING**

MANUFACTURERS OF TILED FIREPLACES

